

Product Datasheet

HIF-1 alpha Antibody - BSA Free NB100-134

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-134

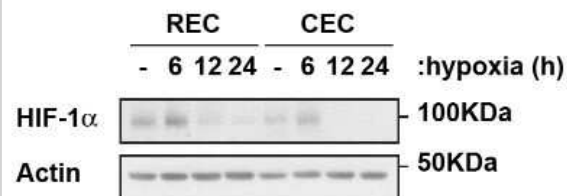
HIF-1 alpha Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	93 kDa
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit HIF-1 alpha Antibody - BSA Free (NB100-134) is a polyclonal antibody validated for use in IHC, WB, ELISA, Dual RNAscope ISH-IHC, ICC/IF, Simple Western, IP and ChIP. Anti-HIF-1 alpha Antibody: Cited in 222 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3091
Gene Symbol	HIF1A
Species	Human, Mouse, Rat, Bovine, Canine, Guinea Pig, Primate, Xenopus, Zebrafish
Reactivity Notes	Use in Human reported in scientific literature (PMID:33654095).
Immunogen	This HIF-1 alpha Antibody was developed against a fusion protein made to an internal sequence of human HIF-1 alpha (containing amino acids 432 - 528) [Uniprot# Q16665].
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Gel Super Shift Assays, Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Dual RNAscope ISH-IHC, Knockout Validated
Recommended Dilutions	Western Blot 1:500 - 1:1000, Simple Western 1:100, ELISA, Immunohistochemistry 1:100 - 1:500, Immunocytochemistry/Immunofluorescence, Immunoprecipitation 1:1000, Immunohistochemistry-Paraffin 1:100 - 1:500, Immunohistochemistry-Frozen 1:100 - 1:500, Immunoblotting, Gel Super Shift Assays 1:1 - 1:100, Chromatin Immunoprecipitation (ChIP), Knockout Validated, Chromatin Immunoprecipitation Sequencing reported in scientific literature (PMID 34277635), Dual RNAscope ISH-IHC

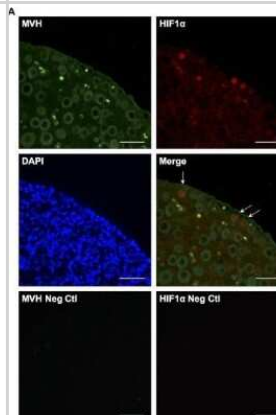


Images

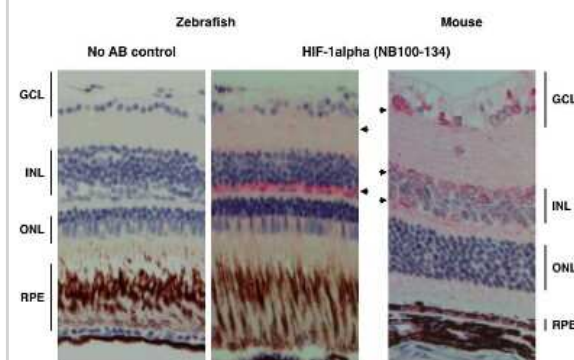
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Analysis of HIF-1 alpha in human retinal and choroidal primary endothelia cells exposed to hypoxic conditions in the times noted using NB100-134. Image from verified customer review.



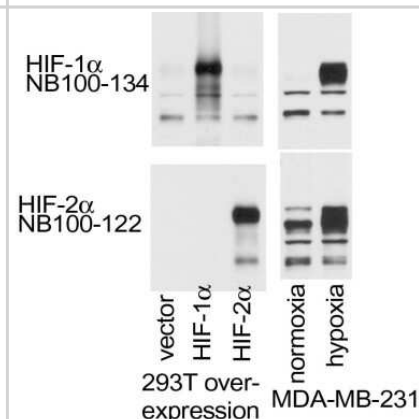
Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hif1alpha expression in neonatal and adult ovary. Section of P5 ovary showing MVH expression in all oocytes and Hif1alpha expression only in small oocytes (primary follicles; top). Negative control images without primary antibodies (bottom). Scale bar: 50um. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0154309>) licensed under a CC-BY license.



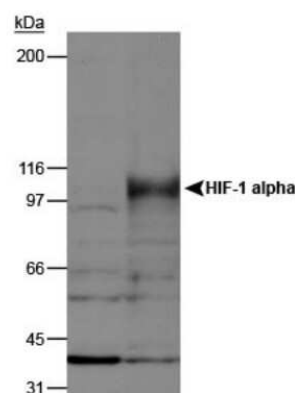
Immunohistochemistry-Paraffin: HIF-1 alpha Antibody - BSA Free [NB100-134] - Analysis of HIF-1 alpha in zebrafish retina tissue using NB100-134 HIF-1 alpha antibody. Mouse tissue was used as a control. Image from verified customer review.



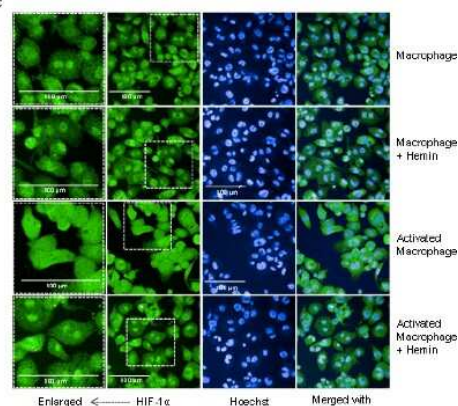
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Analysis of HIF-1 alpha in overexpression and endogenous HIF-1 alpha & HIF-2 alpha using anti-HIF-1 alpha antibody NB100-134. The data showed that HIF-1 alpha antibody did not react to HIF-2 alpha overexpression. Image from verified customer review.



Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Analysis of HIF-1 alpha using NB100-134, on normoxic and hypoxic nuclear rat cell lysates.



Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Representative images of macrophages and activated macrophages, in the absence or presence of 10 uM hemin for 72 h. HIF-1 alpha levels were detected by immunofluorescence using a confocal imaging system (Opera Phenix, Perkin Elmer). Images were acquired with 20x water objective. Staining intensity levels in the nucleus and cytosolic region were obtained using Harmony software (Perkin Elmer). Nucleus and cytosol were identified through Hoechst (at 405 nm) and CellMask (at 655 nm) staining, respectively. Scale is shown as 100 um. Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/33187129/](https://pubmed.ncbi.nlm.nih.gov/33187129/)) licensed under a CC-BY license.



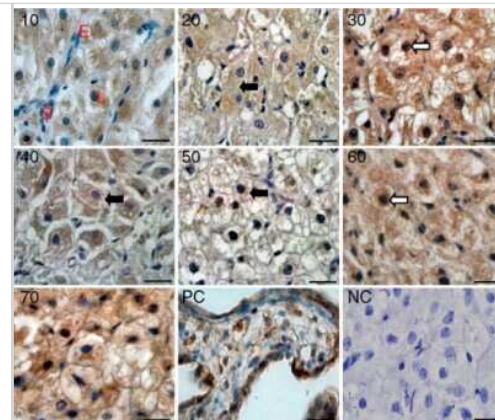
Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Analysis of HIF-1 alpha in Normoxic (N) and Hypoxic (H) ARPE-19 cells using anti-HIF-1 alpha antibody NB100-134. Image from verified customer review.



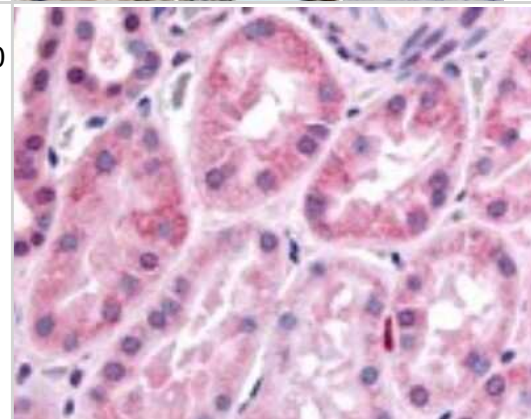
Immunocytochemistry/Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hif1alpha expression in 9.5dpc primordial germ cells. Whole-mount staining of Hif1alpha and GFP in Oct4-GFP embryo (lateral view). Scale bar: 100um. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0154309>) licensed under a CC-BY license.



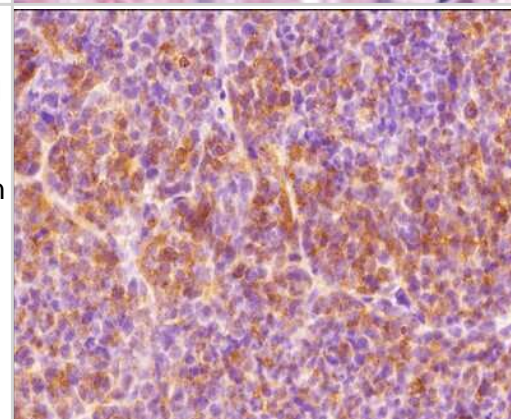
Immunohistochemistry-Paraffin: HIF-1 alpha Antibody - BSA Free [NB100-134] - Staining in the canine CL on days 10 to 70 after ovulation. PC = positive control (human placenta). NC = negative control. Image from verified customer review.



Immunohistochemistry: HIF-1 alpha Antibody - BSA Free [NB100-134] - Staining of human kidney, renal tubular epithelium in cortex using NB100-134.



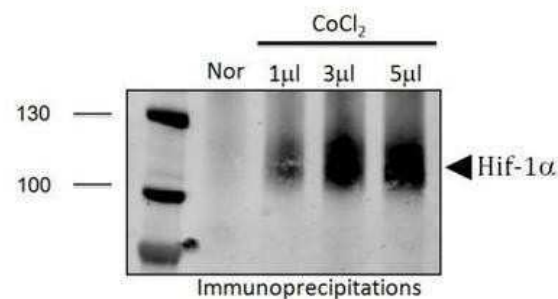
Immunohistochemistry-Paraffin: HIF-1 alpha Antibody - BSA Free [NB100-134] - Analysis of FFPE tissue section of human endometrium carcinoma AN3CA cell line based xenograft using rabbit polyclonal HIF-1 alpha antibody NB100-134 at 1:300 dilution. The signal was developed using HRP-labelled secondary antibody and DAB reagent, and the section was further counterstained using hematoxylin. The tested section depicted mainly a diffused cytoplasmic staining but there were some cells which showed nuclear signal also (representing hypoxic cells).



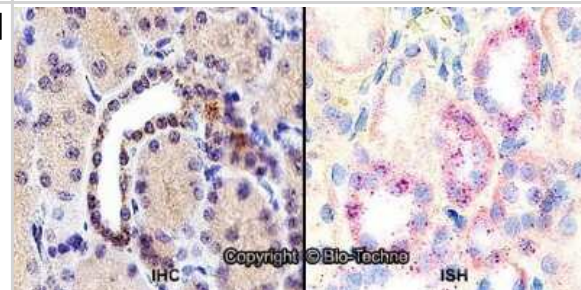
Simple Western: HIF-1 alpha Antibody - BSA Free [NB100-134] - Image shows a specific band for HIF-1 alpha in 0.2 mg/mL of Hypoxic HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



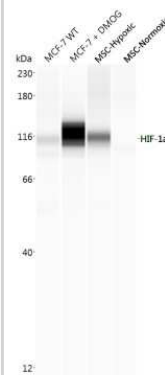
Immunoprecipitation: HIF-1 alpha Antibody - BSA Free [NB100-134] - PC-3 cell lysates run with cobalt chloride treatments. Immunoprecipitation was performed with protein A/G agarose beads. This data was provided courtesy of Kelie Reece, Figg lab, NCI.



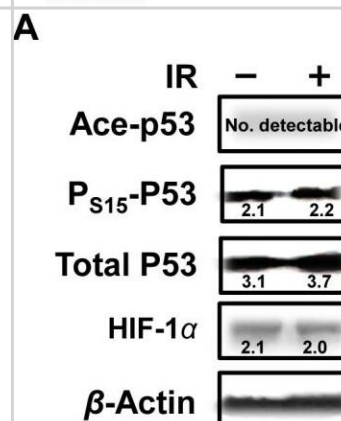
Dual RNAscope ISH-IHC: HIF-1 alpha Antibody - BSA Free [NB100-134] - Formalin-fixed paraffin-embedded tissue sections of human kidney were probed for HIF-1 alpha mRNA (ACD RNAscope Probe, catalog #605228; Fast Red chromogen, ACD catalog # 322750). Adjacent tissue section was processed for immunohistochemistry using Rabbit Polyclonal (Novus Biologicals catalog # NB100-134) at 1:500 dilution with one-hour incubation at room temperature followed by incubation with anti-rabbit IgG VisUCyte HRP Polymer Antibody (Catalog # VC003) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of tubules.



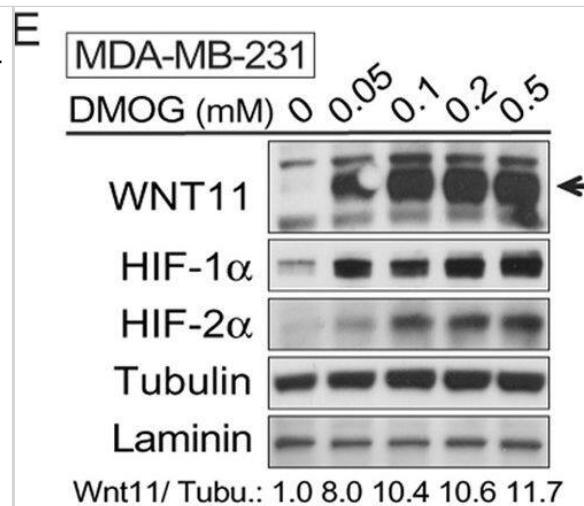
Simple Western: HIF-1 alpha Antibody - BSA Free [NB100-134] - Simple Western lane view shows lysates of MCF +/- DMOG, BioSpherix MSCs in hypoxic conditions, and BioSpherix MSCs in normoxic conditions loaded at 0.5 mg/ml. A band was detected for HIF-1 alpha at approximately 116 kDa (as indicated) using NB100-134 (1:100 dilution) followed by Anti-Rabbit Secondary Antibody (042-206, ProteinSimple). This experiment was conducted under standard assay conditions, and using the 12-230 kDa separation module (SW-W004). Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody. Image from an internal validation.



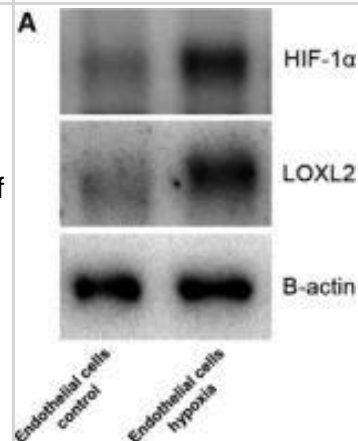
P53 was increased response to IR in the fetal brain. Even though no significant change in protein level, total p53 and phosphorylation of P53 at ser15 were increased compared with HIF-1α in fetal brains response to IR. Numbers in the pictures show the average of three independent experiments (n=3 from 3 individual pregnant mice).



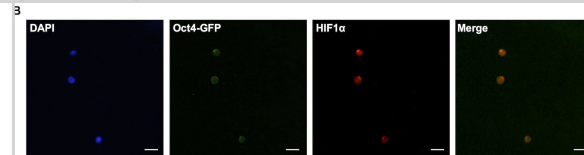
WNT11 is induced by hypoxia or hypoxic mimetics in different cell types. (A) Increased Wnt11 mRNA in EMSC adipocytes (Day 12) after hypoxia-mimetic treatments. EMSC adipocytes were treated with CoCl₂ (0.1 mM), DFO (0.1 mM) or DMOG (0.1 mM) for 24 hrs. Values were normalized to Tbp mRNA & are expressed relative to control (n = 3). (B,C) Increased Wnt11 mRNA by hypoxia in EMSC preadipocytes & adipocytes (Day 0–12 after differentiation) (B), & C2C12 myoblast & myocyte (Day 0 & 8 after differentiation) (C). Wnt11 mRNA was assessed by quantitative PCR in cells exposed to air (21% O₂) or hypoxia (1% O₂) for 24 hrs. (n = 4). Values were normalized to Tbp mRNA & are expressed relative to 21% O₂ samples (left panel). (D) Immunoblot analyses of HeLa cells under normal air or hypoxia for 24 hrs. (E,F) Induction of Wnt11 by increasing concentrations of DMOG in MDA-MB-231 cells (E) & 4T1 cells (F). (G) EMSCs treated with 0.1 mM DMOG for the indicated times. Wnt11 & Vegf mRNA expression was measured by qPCR & normalized to Tbp mRNA (n = 4). (H) WNT11 protein levels after DMOG treatment normalized to α -Tubulin (upper panel; n = 4). Representative immunoblots of EMSCs treated with 0.1 mM DMOG for the indicated times (Lower panel). (I) Protein expression in MDA-MB-231 cells treated with 0.1 mM DMOG. (J) Induction of Wnt11 promoter activity by hypoxia or hypoxia mimetics. pGL3-Wnt11 promoter plasmid was transfected into C2C12 cells. Cells were incubated with DMOG (left panel, n = 4) or under 21% O₂ or 1% O₂ (right panel, n = 8) for 24 hrs. For panels (A–C,G,H,J), values are mean \pm s.e.m. *p < 0.05, **p < 0.01. For panels of immunoblotting, laminin, α -tubulin, & ERK were used as loading controls, WNT11 normalized to α -Tubulin was shown. Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep21520>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



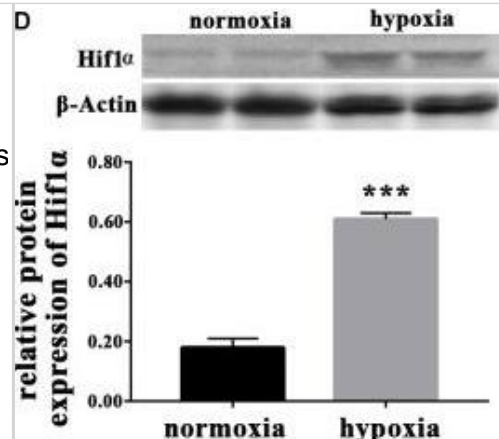
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - LOXL2 abundance in EC \square derived exosomes is increased in hypoxia. (A) Immunoblots of endothelial cells for HIF \square 1 α (control for hypoxia, top panel), LOXL2 (middle panel) & β \square actin (loading control, lower panel). (B) Immunoblots of EC \square derived exosomes for LOXL2 (upper panel), & β \square actin (loading control, lower panel). (C) Densitometric quantification of relative LOXL2 protein abundance in control & hypoxic EC \square derived exosomes (n = 4 \pm SD, Student's t \square test; **P < 0.01). (D) Immunoblots of sucrose density gradient samples of EC \square derived exosomes for LOXL2 (upper panel) & exosome \square marker Flotillin \square 1 (lower panel). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26612622>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



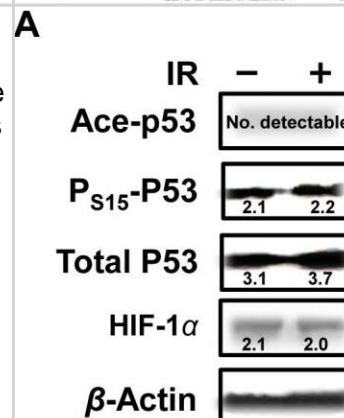
Immunocytochemistry/ Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hif1 α expression in 9.5dpc primordial germ cells. (A) Whole-mount staining of Hif1 α & GFP in Oct4-GFP embryo (lateral view). Scale bar: 100 μ m. (B) Hif1 α & GFP staining of FACS-sorted PGCs. Scale bar: 20 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27148974>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



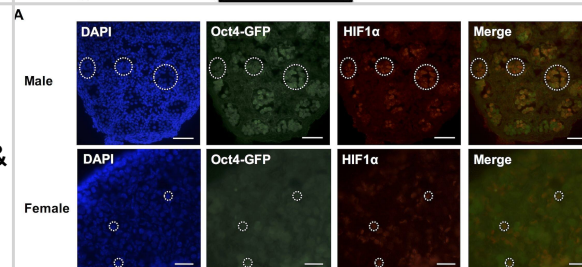
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hypoxic setup for larval zebrafish. (A) (1) oxygen regulator; (2) hypoxic larval aquarium; (3) oxygen electrode; (4) air stone; & (5) solenoid valve. The compressed nitrogen source is shown as a blue gas cylinder. (B) Dissolved oxygen in the hypoxic aquarium decreased slowly over time as nitrogen perfusion increased until dissolved oxygen stabilized at 3.5 mg/L. (C) qRT-PCR analysis showing that *hif1α* mRNA expression was significantly increased under hypoxia. (D) Western blot of Hif1α protein expression showing that hypoxia enhanced Mbp protein translation. □P < 0.05; □□P < 0.01; □□□P < 0.001. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30337858>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



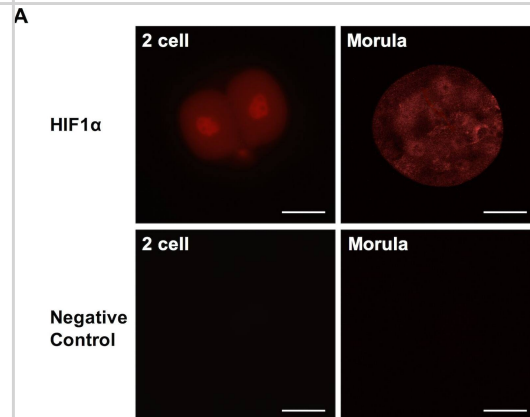
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - P53 was increased response to IR in the fetal brain. Even though no significant change in protein level, total p53 & phosphorylation of P53 at ser15 were increased compared with HIF-1α in fetal brains response to IR. Numbers in the pictures show the average of three independent experiments (n=3 from 3 individual pregnant mice). Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0110577>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



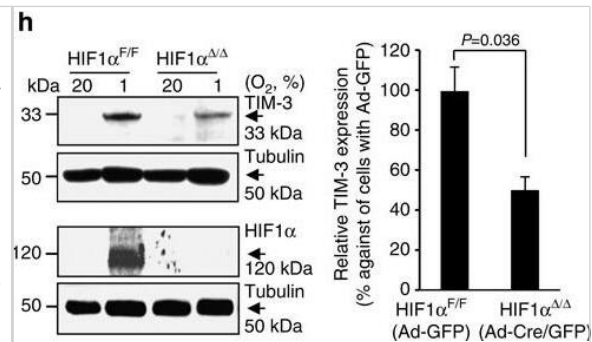
Immunocytochemistry/ Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hif1α expression in 15.5dpc germ cells. (A) Sections of male (top) & female (bottom) gonads from 15.5 dpc Oct4-GFP embryos showing Oct4-GFP & Hif1α expressions in germ cells. Scale bars: 50μm (male) & 20μm (female). (B) FACS-sorted male (top) & female (bottom) 15.5dpc germ cells showing Oct4-GFP & Hif1α expressions. Scale bars: 100μm (male) & 50μm (female). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27148974>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



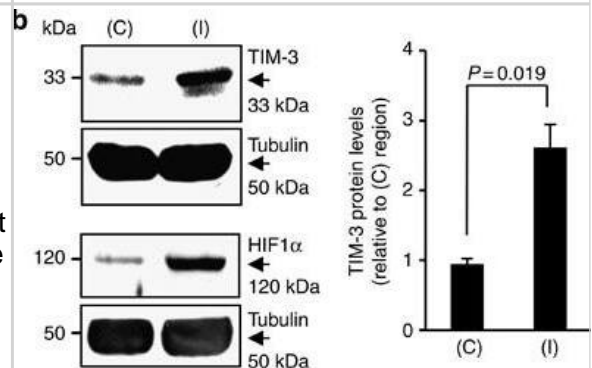
Immunocytochemistry/ Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hif1α expression in preimplantation embryos. (A) Hif1α staining in two-cell stage embryo & morula (top) & negative control images without primary antibody (bottom). (B) Co-staining of OCT4 & Hif1α in inner cell mass of blastocyst (top) & negative control images without primary antibodies (bottom). Scale bar: 30μm. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27148974>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



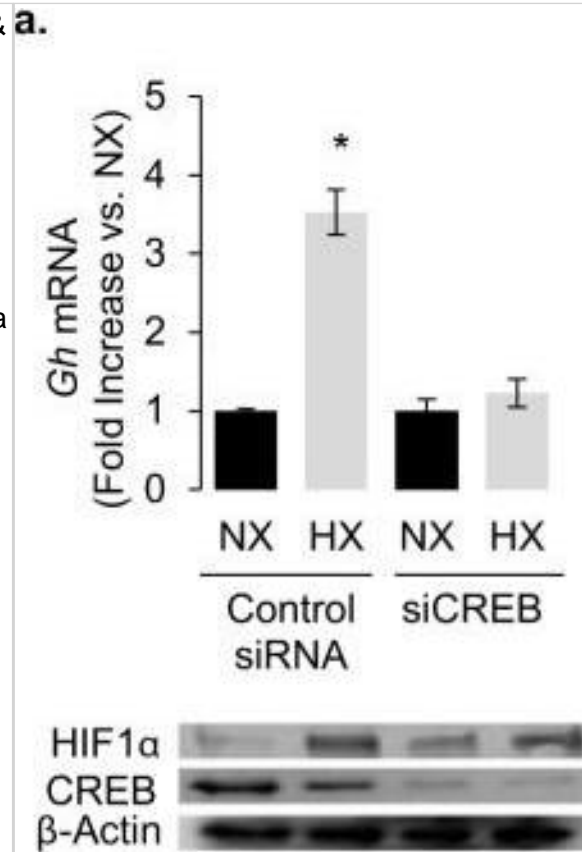
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - HIF-1 α binds to TIM-3 promoter & regulates its expression in primary glia. (a) Cell surface expression of TIM-3 analysed in BV2 cells under 20% O₂ or 1% O₂ for 24 h by flow cytometry using PE-conjugated anti-TIM-3 antibody. Results from 3 independent experiments presented as a representative histogram & the mean fold change (\pm s.d.) relative to normoxic sample. (b) Mouse primary mixed glial cells incubated under hypoxia or normoxia for 24 h, & the cells examined by immunocytochemistry using an anti-TIM-3 antibody. (c,d) Mouse primary mixed glial cells & primary neuronal cells incubated under hypoxia or normoxia for 24 h, & then RT-PCR used to detect the levels of TIM-3 & actin. Relative transcript levels shown as the mean fold change (\pm s.d.) from 3 independent experiments (NS, not significant, Student-Newman-Keuls test). (e) Primary mixed glial cells incubated under hypoxia or normoxia for 24 h, & chromatin immunoprecipitation (ChIP) performed w/ anti-HIF-1 α or control IgG. Results presented as relative amounts representative of 3 independent experiments. (f) Primary mixed glial cells cultured from HIF-1 α +f/+f mice, infected w/ Ad-GFP or Ad-Cre/GFP, transfected w/ TIM-3-luciferase reporter constructs & incubated under hypoxic or normoxic conditions for 24 h. Relative promoter activity is expressed as the ratio of luciferase activity/ β -galactosidase activity. (g,h) RT-PCR (g) & WB analysis (h) performed under hypoxia or normoxia for 24 h using the indicated primers & antibodies, respectively. The data shown representative of at least 3 independent experiments. The graphs show the % changes in TIM-3 transcript & protein levels in Ad-Cre/GFP- versus Ad-GFP-infected cells under hypoxia. IP, immunoprecipitation. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25790768>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



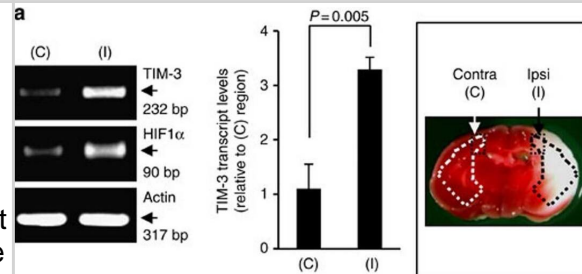
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - TIM-3 is highly expressed in hypoxic brain regions of a H/I mouse model. (a) TIM-3 transcript levels were examined in brain tissues from the contralateral cortex (C, boxed region) & ischaemic ipsilateral cortex (I, boxed region) of mouse model 24 h after H/I. The RT-PCR products were quantified with Image J & normalized with respect to the expression of actin. The HIF-1 α transcript level represents a positive control for hypoxia. The right panel shows representative TTC staining of three brain sections from the H/I mice. (b) Representative western blot analyses of the TIM-3 & HIF-1 α proteins (n=3). Relative levels of TIM-3 are shown as the mean \pm s.d. from three independent experiments. (c) Contralateral & ipsilateral cortical regions of coronal sections from the H/I mice were subjected to immunohistochemistry using an anti-TIM-3 antibody, & the number of TIM-3-expressing cells per mm² was counted. (d) Immunohistochemistry was performed on brain sections from the H/I mice using anti-TIM-3 & hypoxyprobe-1 (red, to detect hypoxic regions). Scale bars, 50 μ m (\times 20); 50 μ m (\times 40). (e,f) Brain cells were isolated from the ipsilateral & contralateral hemispheres of three mice per group, processed for simultaneous detection of TIM-3 plus Iba-1 (e) or GFAP (f), & analysed by FACS. The results are presented as relative TIM-3 levels in the indicated gated populations, as determined from three independent experiments. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25790768>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



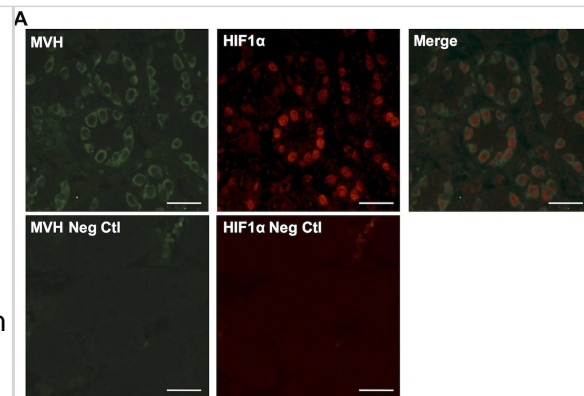
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hypoxia & HIF-1 trigger CREB activity. a Knocking down CREB with siRNA abolishes the effect of hypoxia on endogenous rat Gh transcription in GH3 cells as determined by real-time RT-PCR. Immunoblot shows the knockdown efficacy of the CREB siRNA (b) effect of hypoxia (1% O₂ for 18 h) on CRE induced luciferase activity. Transfection with 100 nM HIF-1 α siRNA for 48 h abolished the effect of hypoxia. Luc/ β Gal: luciferase: β -galactosidase ratio. Data are means \pm SEM of three experiments & expressed as percentage of each normoxia control. *P < 0.05 (Student's t test). c Effect of HIF-1 α overexpression on CRE luciferase activity. Data are means \pm SEM of three experiments & expressed as percentage of mock control. *P < 0.05 (Student's t test). d Chromatin immunoprecipitation showing increased CREB binding to the endogenous rat Pou1f1 (encoding for Pit-1) promoter in GH3 cells overexpressing HIF-1 α . Rabbit IgG was used as a control. Data are arbitrary units from two independent experiments, presented as % of input. **P < 0.01 (Student's t test). e Immunoblot showing that HIF-1 α overexpression increases basal & forskolin (5 μ M, 1–6 h)-induced pCREB-Ser133 levels. It also shows that forskolin-induced pCREB-Ser133 remains elevated in HIF-1 α overexpressing GH3 cells, while it is back to basal after 6 h in the mock plasmid control transfected cells. f Hypoxia fails to increase rat Gh transcription in GH cells overexpressing CREB-M1 (CREBS133A) a mutant that cannot be phosphorylated by PKA. Data are Gh/Tfllb & presented as fold increase to each normoxia (NX). *P < 0.05 to each normoxia (Student's t test). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32111982>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



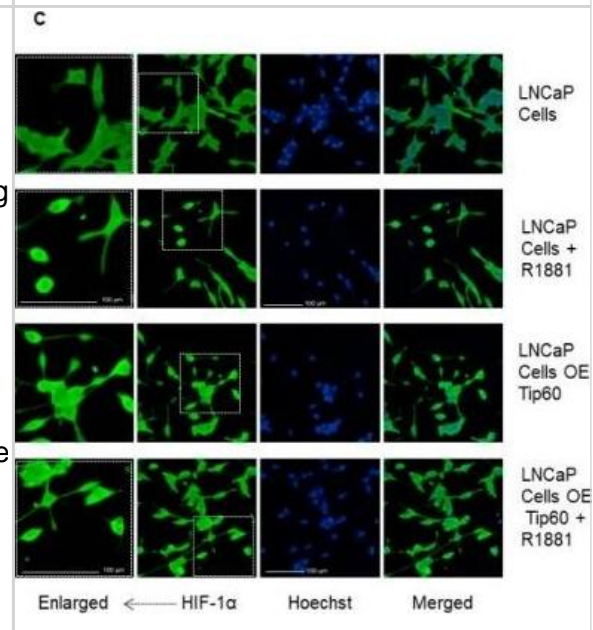
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - TIM-3 is highly expressed in hypoxic brain regions of a H/I mouse model. (a) TIM-3 transcript levels were examined in brain tissues from the contralateral cortex (C, boxed region) & ischaemic ipsilateral cortex (I, boxed region) of mouse model 24 h after H/I. The RT-PCR products were quantified with Image J & normalized with respect to the expression of actin. The HIF-1 α transcript level represents a positive control for hypoxia. The right panel shows representative TTC staining of three brain sections from the H/I mice. (b) Representative western blot analyses of the TIM-3 & HIF-1 α proteins (n=3). Relative levels of TIM-3 are shown as the mean \pm s.d. from three independent experiments. (c) Contralateral & ipsilateral cortical regions of coronal sections from the H/I mice were subjected to immunohistochemistry using an anti-TIM-3 antibody, & the number of TIM-3-expressing cells per mm² was counted. (d) Immunohistochemistry was performed on brain sections from the H/I mice using anti-TIM-3 & hypoxypromote-1 (red, to detect hypoxic regions). Scale bars, 50 μ m (\times 20); 50 μ m (\times 40). (e,f) Brain cells were isolated from the ipsilateral & contralateral hemispheres of three mice per group, processed for simultaneous detection of TIM-3 plus Iba-1 (e) or GFAP (f), & analysed by FACS. The results are presented as relative TIM-3 levels in the indicated gated populations, as determined from three independent experiments. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25790768>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



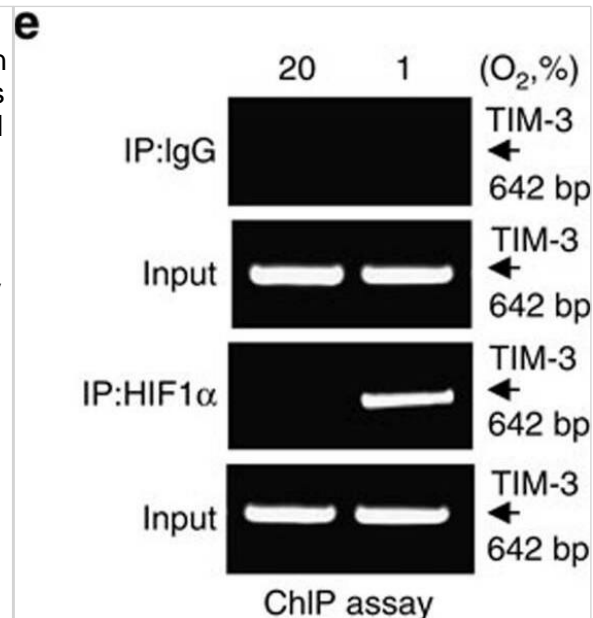
Immunocytochemistry/ Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - Hif1 α expression in neonatal & adult testis. (A) Section of testis from 5-day old (P5) male new born pups showing Hif1 α expression in MVH+ gonocytes within the seminiferous tubules (top) & negative control images without primary antibodies (bottom). Scale bar: 50 μ m. (B) Western blot analysis of Hif1 α expression in P5 testes (left) compared to extract of the adult brain sub-ventricular zone (SVZ) (right). Loading control (β -Actin) is shown below. (C) Section of adult (3 month old) testis showing Hif1 α expression in spermatogonia. Scale bar: 30 μ m. (D) Western blot analysis of whole adult testis. HEK293 cells treated with DFX were used as a positive control & intestinal tissue was used as a negative control. Loading control (β -Actin) is shown below. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27148974>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



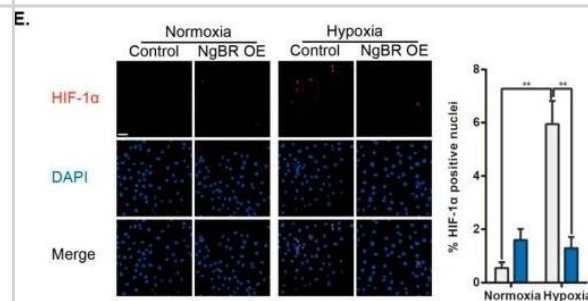
Immunocytochemistry/ Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - HIF-1 α levels are increased by androgen stimulus & Tip60 overexpression in LNCaP cells. (A) Nuclear & (B) cytosolic HIF-1 α levels & (C) images in LNCaP cells & in LNCaP cells overexpressing Tip60, in the absence or presence of androgen (10 nM R1881, 72 h). HIF-1 α levels were detected by immunofluorescence using confocal imaging system. Images were acquired with 20x objective. Staining intensity levels in the nucleus & cytosolic region were obtained using Harmony software. Nucleus & cytosol were identified through Hoechst & CellMask staining, respectively. Scale is shown as 100 μ m. White dotted frames indicate the section of the image that was enlarged. Values are expressed as mean \pm SEM, from three independent culture preparations, each treatment performed in quadruplicate. Two-way ANOVA, Bonferroni post-test & p values comparisons are specified in the figures (* p < 0.05). HIF-1 α , hypoxia-inducible factor-1 α ; OE, overexpressing; R1881, synthetic androgen. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31671779>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



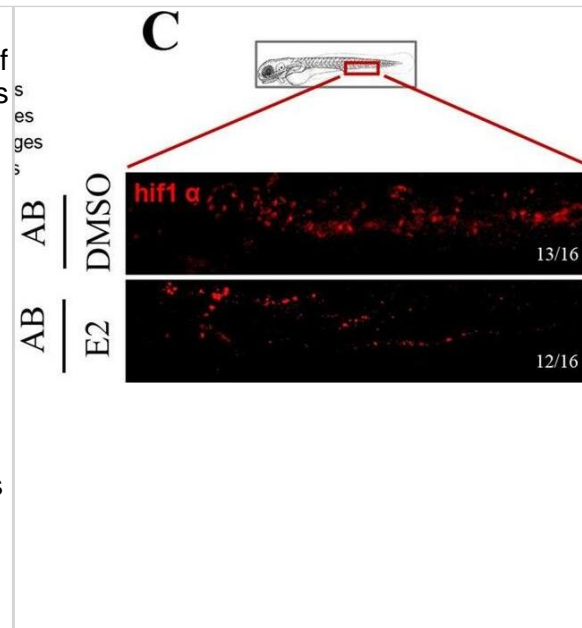
Chromatin Immunoprecipitation: HIF-1 alpha Antibody - BSA Free [NB100-134] - HIF-1 α binds to TIM-3 promoter & regulates its expression in primary glia. (a) Cell surface expression of TIM-3 analysed in BV2 cells under 20% O₂ or 1% O₂ for 24 h by flow cytometry using PE-conjugated anti-TIM-3 antibody. Results from 3 independent experiments presented as a representative histogram & the mean fold change (\pm s.d.) relative to normoxic sample. (b) Mouse primary mixed glial cells incubated under hypoxia or normoxia for 24 h, & the cells examined by immunocytochemistry using an anti-TIM-3 antibody. (c,d) Mouse primary mixed glial cells & primary neuronal cells incubated under hypoxia or normoxia for 24 h, & then RT-PCR used to detect the levels of TIM-3 & actin. Relative transcript levels shown as the mean fold change (\pm s.d.) from 3 independent experiments (NS, not significant, Student-Newman-Keuls test). (e) Primary mixed glial cells incubated under hypoxia or normoxia for 24 h, & chromatin immunoprecipitation (ChIP) performed w/ anti-HIF-1 α or control IgG. Results presented as relative amounts representative of 3 independent experiments. (f) Primary mixed glial cells cultured from HIF-1 α +f/+f mice, infected w/ Ad-GFP or Ad-Cre/GFP, transfected w/ TIM-3-luciferase reporter constructs & incubated under hypoxic or normoxic conditions for 24 h. Relative promoter activity is expressed as the ratio of luciferase activity/ β -galactosidase activity. (g,h) RT-PCR (g) & WB analysis (h) performed under hypoxia or normoxia for 24 h using the indicated primers & antibodies, respectively. data shown representative of at least 3 independent experiments. The graphs show the % changes in TIM-3 transcript & protein levels in Ad-Cre/GFP- versus Ad-GFP-infected cells under hypoxia. IP, immunoprecipitation. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25790768>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



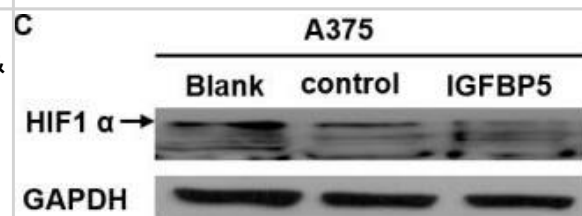
Immunocytochemistry/ Immunofluorescence: HIF-1 alpha Antibody - BSA Free [NB100-134] - NgBR overexpression (OE) suppresses cell proliferation through enhancing mitochondria-ER communication & reducing phosphorylation of IP3R3. (A) The transfection efficiency of NgBR OE plasmid was verified at 48 h post transfection. n = 3 (B) Representative images from three experiments show phosphorylation of endogenous IP3R3 (Akt substrate) in the immunoprecipitates of IP3R3 from crude mitochondrial extracts. (C) Representative confocal microscopy images show co-staining of Rhod-2 AM (red) & MitoTracker Green (green). Results were calculated as relative AFU using ImageJ. n = 20 pictures/group from four independent experiments. Scale bar = 20 μ m. (D) Representative line & bar graphs of OCR of control & NgBR OE cells under normoxia. n = 15–16 wells from three individual experiments. (E) Representative confocal microscopy images showing staining of HIF-1 α (red) & DAPI (nuclear stain; blue). Percentage of HIF-1 α -positive nuclei was calculated using FV10-ASW3.1 software. n > 25 pictures/group from three separate experiments. Scale bar = 40 μ m. (F) Cell proliferation was assessed by evaluating PCNA expression, n = 4. * p < 0.05, ** p < 0.01. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31083380>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



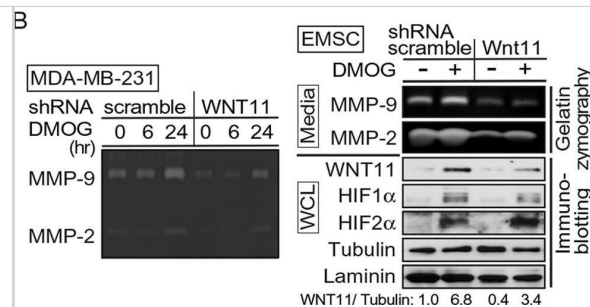
Immunohistochemistry: HIF-1 alpha Antibody - BSA Free [NB100-134] - E2 enhances neutrophil apoptosis through suppressing the expression of hif1 α & c-myb under physiological conditions. A E2 decreased neutrophils in AB zebrafish embryos. (t-test, *** $p < 0.001$, $n > 20$). B May–Grunwald–Giemsa staining of whole KM blood cells in 6-month-old AB zebrafish after 4 days of E2 treatment (t-test, *** $p < 0.001$, $n = 12$). Red arrowheads, blue asterisks, black arrowheads & yellow lightning indicates neutrophils, precursors, lymphocytes & macrophages, respectively. C Staining of hif1 α with antibody with or without E2 treatment. D E2 exposure decreased c-myb in the CHT, as determined by WISH. E qPCR quantification of decreased c-myb expression in lyz:Dsred+ cells by E2 (t-test, mean \pm SEM. *** $p < 0.001$, ** $p < 0.01$, * $p < 0.05$, $n > 20$). F Effect of E2 on neutrophil proliferation in AB zebrafish embryos. (one-way ANOVA (LSD). ns, no significance, $n > 10$). G E2 promotes the apoptosis of myeloid lineage cells in AB zebrafish embryos (one-way ANOVA (LSD) ** $p < 0.01$. $n > 10$). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35842445>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



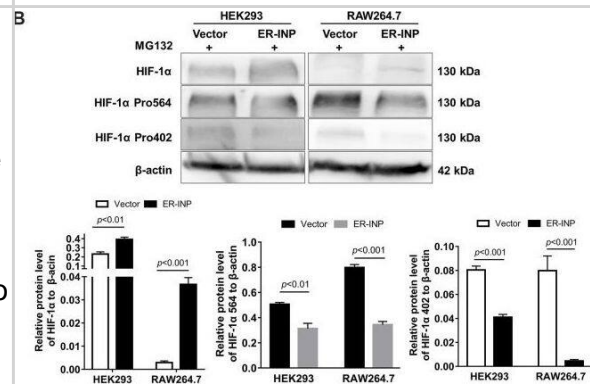
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - IGFBP5 inhibits HIF1 α expression through the MAPK-ERK signaling pathway. A. & B. Western blots using specific antibodies for the phosphorylation state of IGF1R, ERK1/2, & p38-MAPK from A375 IGFBP5 OE & control cells. Phosphorylation of IGF1R, ERK1/2, & p38-MAPK was decreased in A375 cells transfected with IGFBP5. GAPDH was used as a loading control. C. Overexpression of IGFBP5 inhibited HIF1 α expression visualized by western blots of A375 cells. The arrow points to the band of HIF1 α . D. Assessment of the reduced gene expression levels of VEGFA & MMP9, downstream genes regulated by HIF1 α , in A375 IGFBP5 OE compared to control cells by qRT-PCR analysis. Data were shown for the mean \pm SD from three independent experiments. P values based on two-side Student t-test comparing A375 IGFBP5 OE tumor cells & vector control cells. *, $P < 0.05$. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26010068>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



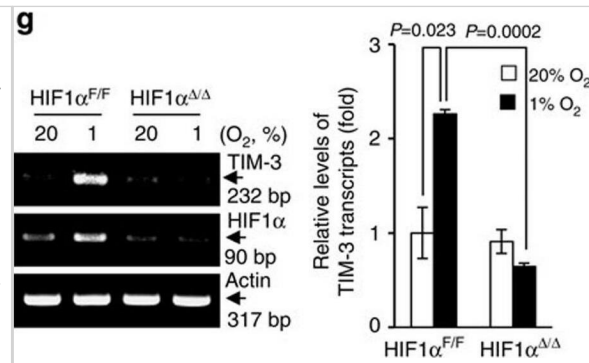
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - WNT11 regulates MMPs activities. (A–C) (Top panels): Serum-free medium was conditioned for 24 hrs by the indicated cells, concentrated 20-fold & assayed by gelatin zymography. Gelatinolytic activity is indicated by clear zones against a dark background of stained substrate. (Bottom): Whole cell extracts were immunoblotted with indicated antibodies. (A) Overexpression of Wnt11 in EMSC or BT473 cells enhances activity of MMP-9 & MMP-2. (B) Impaired activity of MMP-9 & MMP-2 in MDA-MB-231 cells (left) or EMSCs (right) stably expressing Wnt11 shRNAs & treated with DMOG. (C) WNT11 is required for MMP-9 & MMP-2 activity in MDA-MB-231 cells (left) or EMSCs (right) under normoxic & hypoxic culture conditions. (D) WNT11 regulates MMP2 protein in media. (Top): conditioned media from indicated cells & treatments. (Bottom): whole cell lysates were immunoblotted with indicated antibodies. (E) Recombinant WNT11 induces both MMP-2 protein & MMP-2 activity in media. (Top panels): Gelatin zymography & immunoblot of serum-free medium conditioned for the indicated times after recombinant WNT11 (r-WNT11) treatment. (Bottom): Whole cell lysates were immunoblotted with indicated antibodies. (F) MMP-2 inhibitor attenuated induced migration by WNT11. MDA-MB-231 cells infected with lentiviruses for stable expression of Wnt11 or GFP (n = 4) were incubated with either vehicle or 1 μ M of ARP100. Media in the lower compartment had same concentration of DMSO or inhibitor. Values are mean \pm s.e.m. *p < 0.05, **p < 0.01. For panels (A–D), HIF-1 α & HIF-2 α were shown as a marker of hypoxia, WNT11 normalized to α -Tubulin was shown. Image collected & cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep21520>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



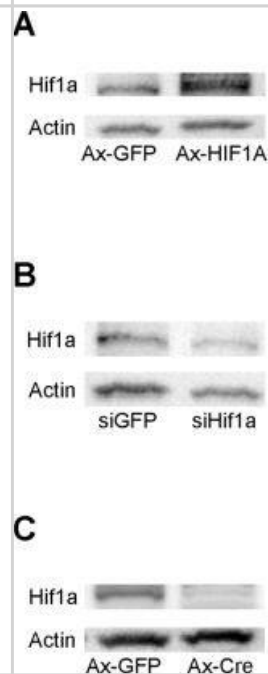
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - ER-INP binds to PHD2, inhibits hydroxylation of HIF-1 α & increases HIF-1 α accumulation. (A) Co-immunoprecipitation assay. HEK293 cells were transfected with control vector or intrabody ER-INP for 48 hours & subsequently lysed. Co-immunoprecipitation & western blot assays were performed on the cell lysis. ER-INP recognized & bound to PHD2 in HEK293 cells (n = 3). (B) Western blot analysis to measure the effect of ER-INP on HIF-1 α & its hydroxylation level in transfected HEK293 & RAW264.7 cells pre-treated with MG132 (upper panel) & the protein ratio to β -actin loading control by ImageJ densitometry analysis (lower panel; n = 3). (C) Immunofluorescence assay. Expression of ER-INP increases HIF-1 α accumulation in RAW264.7 cells. Cells were stained with anti-HIF-1 α antibody & DAPI & then visualized & photographed under immunofluorescence microscopy (left), & mean fluorescence intensity of HIF-1 α versus the mean fluorescence intensity of nuclear DAPI staining is displayed (right). Data represent the mean \pm SD of 3 independent slides. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31413262>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



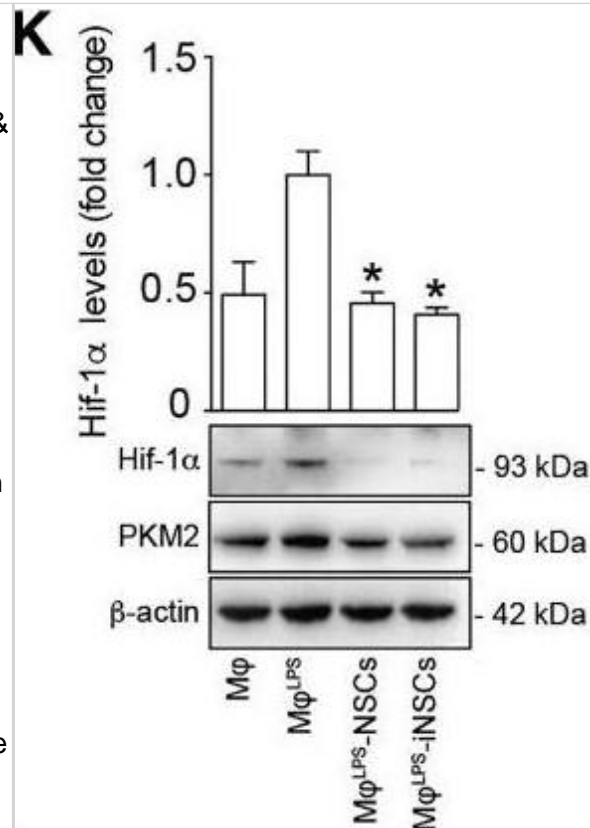
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - HIF-1 α binds to TIM-3 promoter & regulates its expression in primary glia. (a) Cell surface expression of TIM-3 analysed in BV2 cells under 20% O₂ or 1% O₂ for 24 h by flow cytometry using PE-conjugated anti-TIM-3 antibody. Results from 3 independent experiments presented as a representative histogram & the mean fold change (\pm s.d.) relative to normoxic sample. (b) Mouse primary mixed glial cells incubated under hypoxia or normoxia for 24 h, & the cells examined by immunocytochemistry using an anti-TIM-3 antibody. (c,d) Mouse primary mixed glial cells & primary neuronal cells incubated under hypoxia or normoxia for 24 h, & then RT-PCR used to detect the levels of TIM-3 & actin. Relative transcript levels shown as the mean fold change (\pm s.d.) from 3 independent experiments (NS, not significant, Student-Newman-Keuls test). (e) Primary mixed glial cells incubated under hypoxia or normoxia for 24 h, & chromatin immunoprecipitation (ChIP) performed w/ anti-HIF-1 α or control IgG. Results presented as relative amounts representative of 3 independent experiments. (f) Primary mixed glial cells cultured from HIF-1 α +f/+f mice, infected w/ Ad-GFP or Ad-Cre/GFP, transfected w/ TIM-3-luciferase reporter constructs & incubated under hypoxic or normoxic conditions for 24 h. Relative promoter activity is expressed as the ratio of luciferase activity/ β -galactosidase activity. (g,h) RT-PCR (g) & WB analysis (h) performed under hypoxia or normoxia for 24 h using the indicated primers & antibodies, respectively. The data shown representative of at least 3 independent experiments. The graphs show the % changes in TIM-3 transcript & protein levels in Ad-Cre/GFP- versus Ad-GFP-infected cells under hypoxia. IP, immunoprecipitation. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/25790768>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



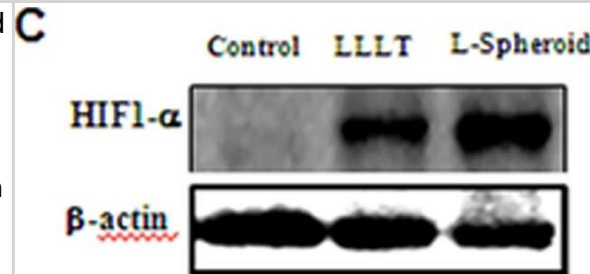
Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Regulation of catabolic genes by HIF-1 α . (A) Protein levels of Hif1a, & mRNA levels of Mmp13, & Hif2a in WT mouse primary chondrocytes transduced with GFP or HIF1A adenoviral vectors under the hypoxic condition (3% O₂). GFP or HIF1A was transduced at a multiplicity of infection (MOI) of 100. The cells were treated with or without 10 ng/mL IL-1 β for 2 days. Bars show the mean \pm SD of three samples per group. *P < 0.05. (B) Protein levels of Hif1a, & mRNA levels of Mmp13, & Hif2a in WT mouse primary chondrocytes transfected with siRNA against GFP or Hif1a under the hypoxic condition. The cells were treated with or without 10 ng/mL IL-1 β for 2 days. Bars show the mean \pm SD of three samples per group. *P < 0.05. (C) Protein levels of Hif1a, & mRNA levels of Mmp13, & Hif2a in Hif1^{fl/fl} primary chondrocytes transduced with GFP or Cre adenoviral vectors under the hypoxic condition. GFP or Cre was transduced at a MOI of 100. The cells were treated with or without 10 ng/mL IL-1 β for 2 days. Bars show the mean \pm SD of three samples per group. *P < 0.05. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32214220>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - NSCs Reduce Succinate Levels & Reprogram the Metabolism of Type 1 Pro-inflammatory M ϕ toward Oxidative Phosphorylation In Vitro(A) Experimental setup for in vitro M ϕ LPS co-cultures with iNSCs/NSCs.(B & C) Gene expression microarrays of M ϕ LPS-iNSCs/NSCs. (B) Venn diagram of differentially expressed genes (adjusted p value < 0.1). (C) Heatmap of genes differentially expressed (adjusted p value < 0.1) in M ϕ LPS-iNSCs or M ϕ LPS-NSCs.(D & E) qRT-PCR independent validation of differentially expressed inflammatory genes as in (C). (D) Expression of genes related to type 1 inflammatory (E) & anti-inflammatory M ϕ phenotypes relative to Actb. Data are mean fold change (\pm SEM) versus M ϕ LPS from $n \geq 3$ independent replicates per condition.(F) qRT-PCR of BV2LPS-iNSCs/NSCs (\pm SEM) from $n \geq 3$ independent experiments per condition. BV2 & BV2LPS are shown as controls.(G & H) Extracellular flux (XF) assay of the oxygen consumption rate (OCR) (G) & extracellular acidification rate (ECAR) (H) in M ϕ LPS-iNSCs/NSCs. Data were normalized on total protein content & are expressed as mean values (\pm SEM) from $n \geq 3$ independent experiments per condition.(I & J) Levels of significantly changed extracellular (EXTRA_Metab, I) & intracellular (INTRA_Metab, J) metabolites in M ϕ LPS versus M ϕ at 25 hr. Data are mean a.u. (\pm SEM) from $n \geq 2$ independent experiments per condition.(K & L) Hif-1 α (K), PKM2 (K), & IL-1 β (L) expression levels relative to β -actin. Data are mean fold change versus M ϕ LPS (\pm SEM) from $n \geq 3$ independent experiments per condition. \square $p \leq 0.05$ & $\square\square$ $p \leq 0.01$ versus M ϕ LPS. See also Tables S2 & S3. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29478844>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: HIF-1 alpha Antibody - BSA Free [NB100-134] - Enhanced expression of hypoxia-induced survival factors & angiogenic growth factors in hASC L-spheroids.(A) The light source used was LED (660 nm) designed to fit over a microplate (12.5 \times 8.5 cm) for cell culture. (B) Formation of hASC L-spheroids. hASCs morphology on non-tissue culture-treated 24-well plates at day 3. Scale bar = 500 μ m. (C) Western blot analysis & quantification of HIF1- α in hASCs cultured as spheroids, L-spheroids & monolayers (* $p < 0.01$, compared to the L-spheroid group). (D) Angiogenesis-related protein analysis of L-spheroids (*, $p < 0.05$, compared to the spheroid group, t-test, $n = 3$ in each group). (E) ELISA measurement of spheroids cultured for 3 days. Concentrations of VEGF are presented as pg-corrected for 104 cells. (*, $p < 0.05$, compared with spheroid 6J/cm 2 group, t-test, $n = 3$ in each group). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/26065900>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Bayraktar E, Rodriguez-Aguayo C, Stur E et al. Epigenetic modulation of BARD1 to enhance anti-VEGF therapy Cell reports. Medicine 2025-09-16 [PMID: 40907495]

Dong Z, Wit N, Agarwal A et al. Hypoxia promotes airway differentiation in the human lung epithelium. Cell stem cell 2025-10-10 [PMID: 41075787]

Fuentes-Fayos AC, Prez-Gmez JM, G-Garca ME et al. SF3B1 inhibition disrupts malignancy and prolongs survival in glioblastoma patients through BCL2L1splicing and mTOR/-catenin pathways imbalances Journal of Experimental & Clinical Cancer Research 2022-12-01 [PMID: 35086552] (Western Blot, Human)

Wierenga ATJ, Cunningham A, Erdem A et al. HIF1/2-exerted control over glycolytic gene expression is not functionally relevant for glycolysis in human leukemic stem/progenitor cells Cancer & Metabolism 2019-12-27 [PMID: 31890203] (Western Blot, Human)

Han H, Jain AD, Truica MI et al. Small-Molecule MYC Inhibitors Suppress Tumor Growth and Enhance Immunotherapy Cancer Cell 2019-11-01 [PMID: 31679823] (Western Blot, Human)

Elcocks H, Brazel AJ, McCarron KR et al. FBXL4 ubiquitin ligase deficiency promotes mitophagy by elevating NIX levels The EMBO journal 2023-04-27 [PMID: 37102372] (Western Blot, Human)

Zhang X, Chen L. Effects of CoCl₂-simulated hypoxia on the expression levels of matrix metalloproteinases in renal adenocarcinoma cells and renal tubular epithelial cells Exp Ther Med 2018-08-01 [PMID: 30116394] (Western Blot, Human)

Verhaar N, de Buhr N, von Kckritz-Blickwede M et al. Hypoxia signaling in the equine small intestine: Expression and distribution of hypoxia inducible factors during experimental ischemia Frontiers in Veterinary Science 2023-02-24 [PMID: 36908508] (Western Blot, Human)

Locri F, Dal Monte M, Aronsson M et al. UPARANT is an effective antiangiogenic agent in a mouse model of rubeosis iridis Journal of Molecular Medicine 2019-09-01 [PMID: 31243519] (Western Blot, Human)

Liao Q, Zhu C, Sun X et al. Disruption of sirtuin 7 in zebrafish facilitates hypoxia tolerance Journal of Biological Chemistry 2023-08-01 [PMID: 37481210] (Western Blot, Human)

Schaff DL, Singh S, Kim KB et al. Fragmentation of Small-Cell Lung Cancer Regulatory States in Heterotypic Microenvironments Cancer Research 2021-04-01 [PMID: 33531375] (Western Blot, Human)

Wang RX, Henen MA, Lee JS et al. Microbiota-derived butyrate is an endogenous HIF prolyl hydroxylase inhibitor Gut Microbes 2021-06-30 [PMID: 34190032] (Western Blot, Human)

More publications at <http://www.novusbio.com/NB100-134>



Procedures

Western Blot protocol for HIF-1 alpha Antibody (NB100-134)

General considerations for Western blot analysis of HIF-1 alpha proteins:

1. HIF-1alpha is largely undetectable in cells or tissues grown under normoxic conditions. It is stabilized only at O₂ concentrations below 5% or with treatment using certain agents (CoCl₂, DFO, etc.), therefore proper sample preparation is critical. We recommend lysing cells quickly and directly into the Laemmli sample buffer with DTT or BME.
2. Since stabilized HIF-1alpha translocates to the nucleus, using nuclear extracts is recommended for western blot analysis.
3. Positive and negative controls should always be run side by side in a Western blot to accurately identify the protein band upregulated in the hypoxic sample. (HeLa Hypoxic/Normoxic Cell Lysate: NBP2-36452; HeLa Hypoxic (CoCl₂)/Normoxic Lysate: NBP2-36450)
4. To accurately compare treated and untreated samples and to ensure equal loading of samples the expression of a loading control should be evaluated. (alpha Tubulin Antibody (DM1A): NB100-690)
5. Unprocessed HIF-1alpha is ~95 kDa, while the fully post-translationally modified form is ~116 kDa, or larger.
6. HIF-1alpha may form a heterodimer with HIF-1beta (Duan, et al. Circulation. 2005; 111:2227-2232.). However, this is not typically seen under denaturing conditions.
7. Depending on the sample and treatment, a single band or a doublet may be present.

Western Blot Protocol

1. Load samples of treated and untreated cell lysates, 10-40 mg of total protein per lane on a 7.5%polyacrylamide gel (SDS-PAGE). Alternatively, gradient gels can be used for better resolution of lower molecular weight loading controls.
2. Resolve proteins by electrophoresis as required.
3. Transfer proteins to 0.45 mm PVDF membrane for 1 hour at 100V or equivalent.
4. Stain the blot using Ponceau S for 1-2 minutes to confirm efficient protein transfer onto the membrane.
5. Rinse the blot in distilled water to remove excess stain and mark the lanes and locations of molecular weight markers using a pencil.
6. Block the membrane using 5% non-fat dry milk in TBST (0.1% Tween) for 1 hour.
7. Dilute the mouse anti-HIF-1 alpha primary antibody (NB100-105) at 2ug/ml in blocking solution and incubate 1 hour at room temperature or overnight at 4C.
8. Wash the membrane 3X 5 min in TBST.
9. Incubate in the appropriate diluted mouse-IgG HRP-conjugated secondary antibody in blocking solution (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the membrane 3X 5 min in TBST.
11. Incubate with ECL detection reagent (Supersignal West Pico Plus, or more sensitive) for 5 min.
12. Image the blot. That may require up to 5min of exposure due to weak signal.



Immunohistochemistry-Paraffin protocol for HIF-1 alpha Antibody (NB100-134)

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 uL biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 uL Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 uL DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.





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Products Related to NB100-134

NB800-PC26	COS-7 Nuclear Hypoxic Induced Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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