

# Product Datasheet

## Nrf2 Antibody - BSA Free NBP1-32822

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP1-32822**

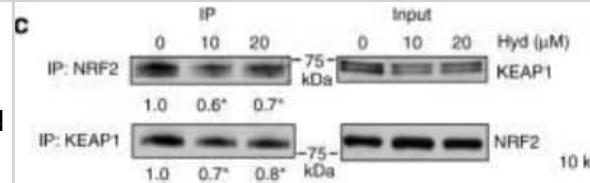
Nrf2 Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Target Molecular Weight</b>	68 kDa
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Nrf2 Antibody - BSA Free (NBP1-32822) is a polyclonal antibody validated for use in IHC, WB, Flow, ICC/IF, Simple Western, IP and ChIP. Anti-Nrf2 Antibody: Cited in 72 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4780
<b>Gene Symbol</b>	NFE2L2
<b>Species</b>	Human, Mouse, Rat, Alligator, Avian, Plant, Zebrafish
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human NRF2. The exact sequence is proprietary.
Product Application Details	
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Simple Western, Flow Cytometry Assay dependent, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, Chromatin Immunoprecipitation (ChIP) Assay dependent, Knockdown Validated
<b>Application Notes</b>	See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in Hep-G2, separated by Size, apparent MW was 108 kDa

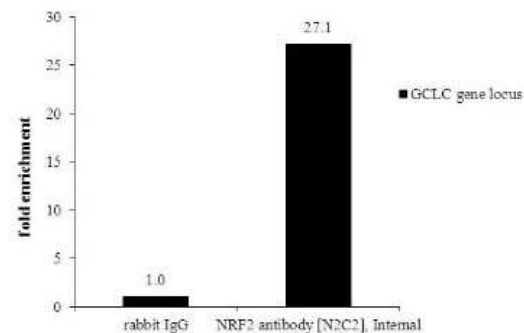


## Images

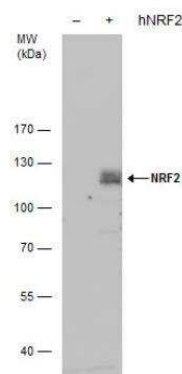
Hydralazine enhances NRF2 signaling in SH-SY5Y cells. c Hydralazine reduced the interaction between NRF2 and KEAP1. Interactions were measured by reciprocal Co-IPs followed by western blot analysis. \* $p < 0.05$ , two-tailed Student's t test,  $n = 3$ , mean  $\pm$  SD. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41467-017-02394-3>), licensed under a CC-BY license.



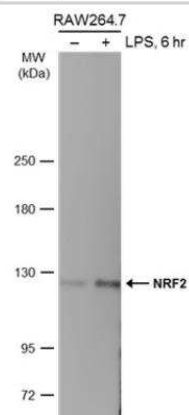
ChIP was performed with HepG2 chromatin extract and 5 ug of either normal rabbit IgG or anti-NRF2 antibody. The precipitated DNA was detected by PCR with primer set targeting to GCLC gene locus.



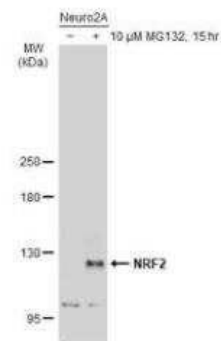
Non-transfected (-) and NRF2-transfected (+, including 3xFlag-tag) 293T whole cell extracts (30ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody diluted by 1:1000.



Untreated (-) and treated (+) RAW264.7 whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



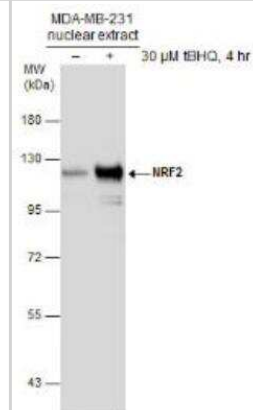
Untreated (-) and treated (+) Neuro2A whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



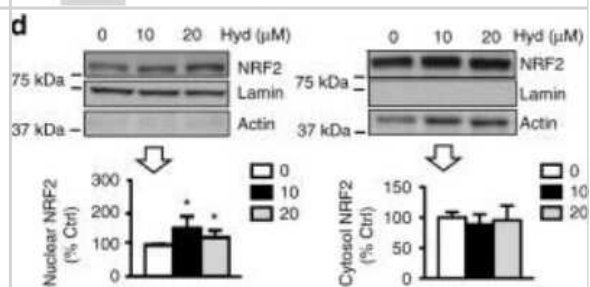
Untreated (-) and treated (+) HepG2 whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



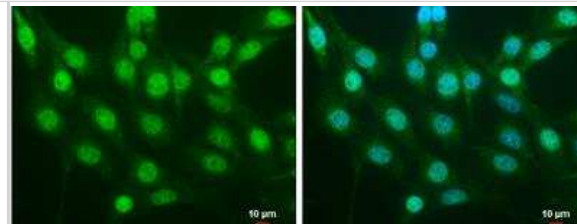
Untreated (-) and treated (+) MDA-MB-231 nuclear extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:1000.



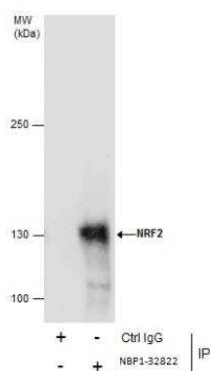
Nrf2-Antibody-Western-Blot-NBP1-32822-img0047.jpg



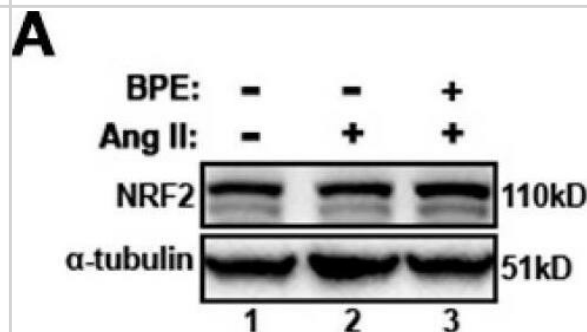
NIH/3T3 cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: NRF2 protein stained by NRF2 antibody [N2C2], Internal diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10  $\mu$ m.



Immunoprecipitation of NRF2 protein from HepG2 whole cell extracts using 5  $\mu$ g of NRF2 antibody [N2C2], Internal Western blot analysis was performed using NRF2 antibody [N2C2], Internal.. EasyBlot anti-Rabbit IgG was used as a secondary reagent.



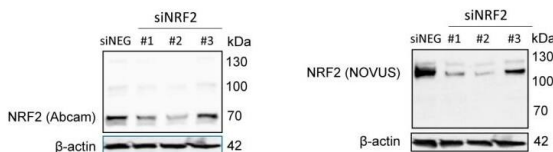
Western Blot: Nrf2 Antibody [NBP1-32822] - Blueberry polyphenol extract (BPE) increases the expression of NRF2 & HO-1 while reducing NF- $\kappa$ B p65 phosphorylation in angiotensin (Ang) II-treated human aortic endothelial cells (HAECs). HAECs were treated with 200  $\mu$ g/mL of BPE for 1 h then treated with 200 nM of Ang II for 12 h. Protein expression of NRF2 (A,B), HO-1 (C,D), & NF- $\kappa$ B p65 (E,F) were determined by Western blot. Quantification was performed using Image Lab (Bio-Rad Laboratories, Inc.). Data are expressed as mean  $\pm$  SD from nine (HO-1), & three (NRF2 & NF- $\kappa$ B) independent experiments. Values that do not share the same letter are significantly different from each other ( $p \leq 0.05$ ). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35453301>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



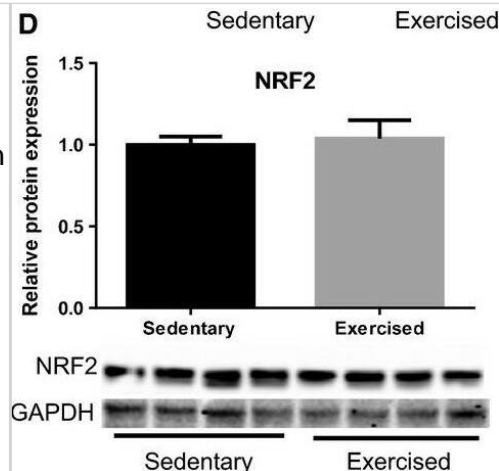
Western Blot: Nrf2 Antibody [NBP1-32822] - NRF2 antibody validation. (A) NRF2 expression was silenced in MCF7 cells by transiently transfecting NRF2-specific siRNAs or a negative control siRNA for 48 h, then NRF2 protein expression was determined using two different antibodies (Abcam: ab31163; NOVUS: NBP1-32822). (B–D) 4T1 cells were treated with NRF2 activators, RA839 or tBHQ, or MG-132, a proteasome inhibitor, in the concentrations indicated for 48 h, then NRF2 protein expression was determined by western blotting using two different antibodies (Abcam: ab31163; NOVUS: NBP1-32822). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31461945>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

NRF2 silencing:

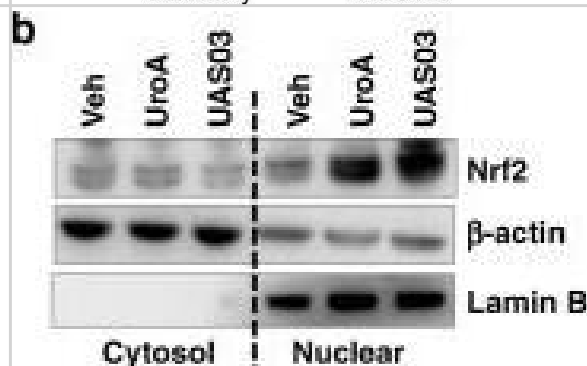
**A**



Western Blot: Nrf2 Antibody [NBP1-32822] - Maternal exercise during pregnancy on mitochondrial biogenesis in the fetal hearts. (A) Levels of relative mRNA expression measured by qRT-PCR.  $n = 9-12$ /group. Maternal exercise during pregnancy did not alter levels of mRNA in Ppargc1a & Tfam, while it significantly upregulated the levels of mRNA in Nrf1 & Nrf2. (B–D) Densitometric analyses of protein expression levels relative to the sedentary group with representative images of western blots were shown. No significant differences in PGC1 $\alpha$ , NRF1, & NRF2 ( $P > 0.05$ ).  $n = 5-6$ /group. \*  $P < 0.05$ , significantly different from the sedentary group. Black bar: fetal hearts from sedentary dams; gray bar: fetal hearts from exercised dams. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28292876>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



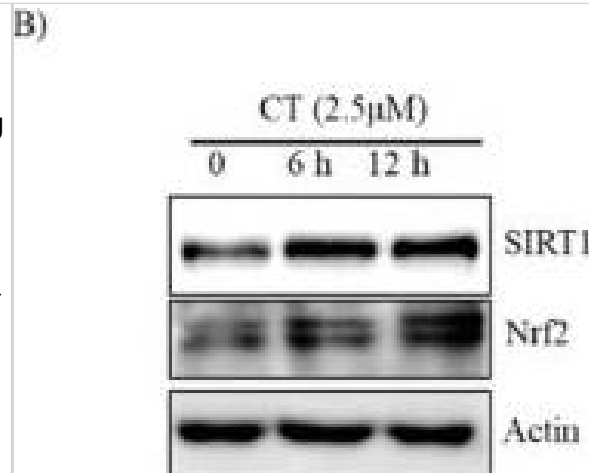
Western Blot: Nrf2 Antibody [NBP1-32822] - Nrf2 is required for UroA/UAS03 mediated upregulation of tight junction proteins. a Nrf2 levels were determined by immunoblots in HT29 cells treated with vehicle/UroA/UAS03 (50  $\mu$ M) for 24 h. b Nrf2 expression in cytosolic & nuclear fractions of HT29 cells treated with Veh/UroA/UAS03 (50  $\mu$ M) for 6 h. c Immunofluorescence confocal images of HT29 cells treated with vehicle/UroA/UAS03 (50  $\mu$ M) for 6 h. The cells were stained with anti-Nrf2 antibody & DAPI. Relative green fluorescence ( $n = \sim 20$  cells) intensity was measured. Scale bars indicate 25  $\mu$ m. d Expression of Cldn4 & NQO1 in colon explants from WT, Nrf2 $^{-/-}$ , & AhR $^{-/-}$  mice treated with vehicle/UroA/UAS03 (50  $\mu$ M) for 24 h. Immunoblots were quantified using Image J software. e mRNA levels of Cldn4, Nrf2, & HO1 from colon explant cultures was measured by real-time PCR using SyBr green method. f C57BL/6, Nrf2 $^{-/-}$ , & AhR $^{-/-}$  mice ( $n = 3$ ) treated orally daily with veh or UroA/UAS03 (20 mg/kg) for 1 week. Cldn4 & NQO1 protein levels in colons were measured by immunoblots & quantified by Image J software. All in vitro studies were performed in triplicates. The immunoblots of colon explants & colon tissues were quantified from at least 6 independent runs. The levels of proteins were normalized to  $\beta$ -actin & Wild type vehicle treatment was set to 1 & calculated the fold changes. Statistics performed using unpaired t-test using Graphpad Prism software. Error bars,  $\pm$ SEM; \* $p < 0.05$ ; \*\* $p < 0.01$ ; \*\*\* $p < 0.001$ . Source Data are provided as a Source Data File Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30626868>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



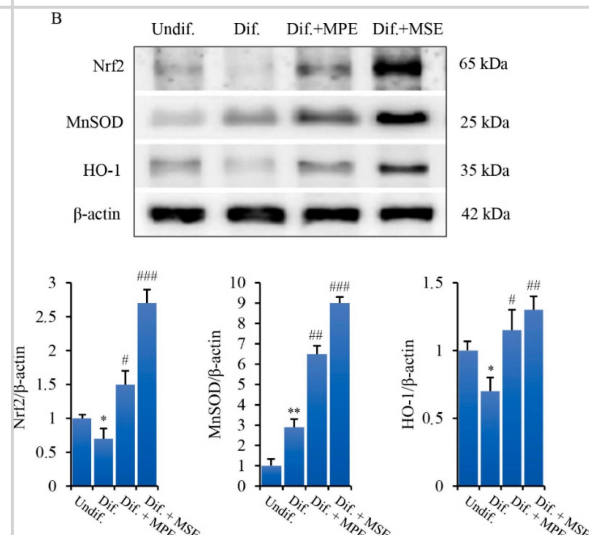
Western Blot: Nrf2 Antibody [NBP1-32822] - Modulation of Nrf2 & Keap1 mRNA & protein levels by compounds 1–6, curcumin (CURC), & dimethyl fumarate (DMF). (A–B) RNA from total cellular extracts of SH-SY5Y cells treated for 24 hours with 5  $\mu$ M compounds or 20  $\mu$ M DMF were analyzed for Nrf2 (A) & Keap1 (B) mRNA expression by RT-qPCR. GAPDH was used as housekeeping gene. Results are shown as mean  $\pm$  SEM; no statistically significant data with Dunnett's multiple comparison test (A,  $n = 3$ , F ratio = 1.249; B,  $n = 3$ , F ratio = 1.671). (C–D) Cellular extracts of SH-SY5Y cells treated for 24 hours with compounds at 5  $\mu$ M or 20  $\mu$ M DMF were analyzed for Nrf2 (C) & Keap1 (D) protein levels by Western blot. Anti-tubulin was used as protein loading control. Results are shown as ratio (% of CTR)  $\pm$  SEM; \*\* $p < 0.01$ , versus CTR; Dunnett's multiple comparison test (C,  $n \geq 5$ , F ratio = 3.981; D,  $n = 3$ , F ratio = 0.4049). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32047434>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



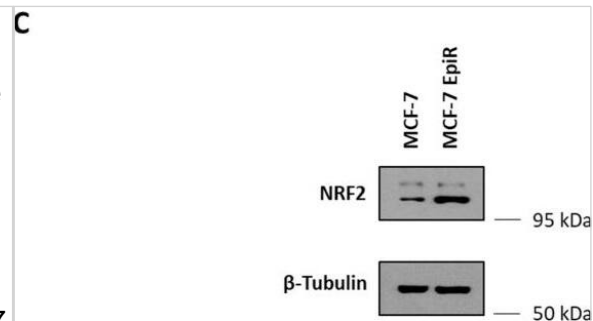
Western Blot: Nrf2 Antibody [NBP1-32822] - CT activated AMPK/SIRT1 signaling. (A,B) HepG2 cells were treated with 2.5  $\mu$ M CT for indicated times. Western blot analysis of phosphorylated AMPK, ACC, SIRT1, & Nrf2. (C) C57BL/6 mice were pair-fed either control or ethanol-containing diet with or without CT (20 or 40 mg/kg) for four weeks. Western blot analysis of phosphorylated AMPK, SIRT1, CYP2E1, & Nrf2. (D) HepG2 cells were incubated with 50 mM ethanol & treated with CT (2.5 or 5  $\mu$ M) for 24 h. Western blot analysis of phosphorylated AMPK, SIRT1, CYP2E1, & Nrf2. (E) AML-12 cells were incubated with 50 mM ethanol & treated with CT (2.5 or 5  $\mu$ M) for 24 h. Western blot analysis of phosphorylated AMPK & SIRT1. The images are representative (F) HepG2 cells were pretreated with CT (2.5  $\mu$ M) for 3 h or with compound C (comp C) (10  $\mu$ M) for 6 h, followed by ethanol (100  $\mu$ M) treatment. Measurement of intracellular TG levels. Data are shown as mean  $\pm$  SD of three independent experiments. # $p$  < 0.05 vs. untreated control, \*\*  $p$  < 0.01 vs. ethanol-treated group. §§ $p$  < 0.01 vs. ethanol & CT-treated group. Densitometric analysis of western blots are given in Supplementary Figures S2 & S3A–G. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31906014>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



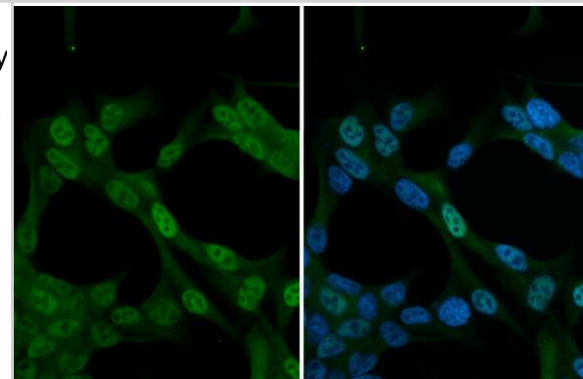
Western Blot: Nrf2 Antibody [NBP1-32822] - MPE & MSE exert anti-oxidant effects in 3T3-L1 adipocytes. 3T3-L1 cells were treated with pro-differentiative agents for 8 days in the presence or absence of 100  $\mu$ g/mL MPE or MSE, as reported in Methods. (A) Intracellular ROS were detected using the redox-sensitive fluorochrome H<sub>2</sub>-DCFDA. After differentiation, the medium was replaced with 10  $\mu$ M H<sub>2</sub>DCFDA solution & the incubation was protracted for 30 min at 37 °C. The oxidation of the fluorochrome generates green fluorescence, which was visualized by a Leica microscope equipped with a DC300F camera using a FITC filter. Representative micrographs of fluorescence microscopy were taken at 200 $\times$  magnification. (B). Western blotting analysis of Nrf2, MnSOD & HO-1 in 3T3-L1 cells differentiated without or with 100  $\mu$ g/mL MPE or MSE. Equal loading of proteins was verified by immunoblotting for  $\beta$ -actin & showed values were assigned in relation to undifferentiated cells (Undif.). The bar graphs represent the mean of three independent experiments  $\pm$  SD. \*  $p$  < 0.05, \*\*  $p$  < 0.01 with respect to the undifferentiated 3T3-L1 cells, #  $p$  < 0.05, ##  $p$  < 0.01 & ###  $p$  < 0.001 with respect to the differentiated untreated 3T3-L1 cells (Dif.). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35204243>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



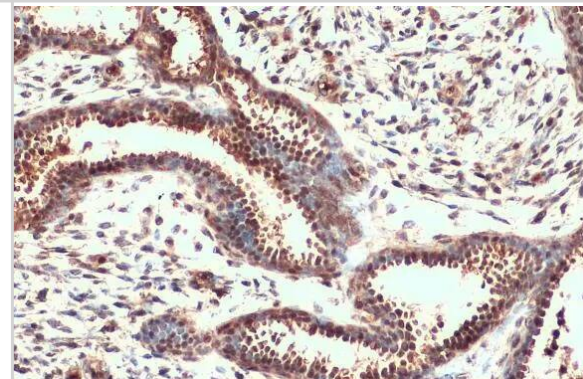
Western Blot: Nrf2 Antibody [NBP1-32822] - NRF2 modulates epirubicin resistance in breast cancer cells. (A) MCF-7 & MCF-7 EpiR cells were treated for 24 h with epirubicin at 1  $\mu$ M. MCF-7 & MCF-7 EpiR cells were stained with CellROX Deep Red reagent & analyzed for ROS levels by flow cytometry. Data were analyzed by FlowJo software. The mean fluorescence values were presented as relative ROS level compared to untreated cells (0  $\mu$ M). Data presented as mean  $\pm$  SD. Student's t-test was used to compare the means: \*\*  $p < 0.01$ ; \*\*\*  $p < 0.001$ ; n.s. nonsignificant. (N = 4) (B) Knockdown of NRF2 was achieved by transfecting 4 specific siRNA against NRF2 (siNRF2, 150pmol) to MCF-7 EpiR cells in a 6-well plate. Non-targeting siRNAs were used as control (NSC). At 24 h post-transfection, these cells were seeded in 6-well plates & treated with increasing doses of epirubicin for 14 days. Their sensitivity to epirubicin was assessed by clonogenic assay. Their clonogenicity in response to epirubicin was analyzed by two-way ANOVA & found to be significantly different (\*\*  $p < 0.01$ ) from one another. (N = 3) (C) Expression of NRF2 in MCF-7 cells & MCF-7 EpiR cells was detected by Western blot.  $\beta$ -Tubulin served as the loading control. (N = 3). Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32110852>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



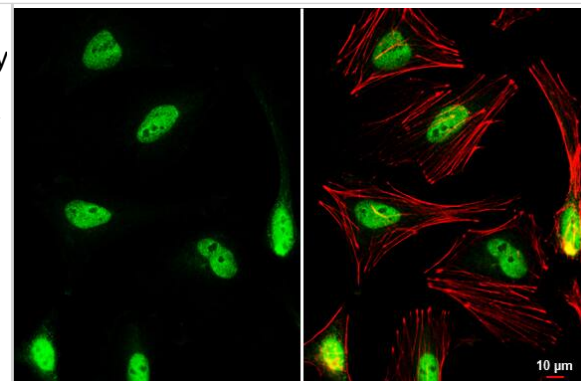
Immunocytochemistry/ Immunofluorescence: Nrf2 Antibody [NBP1-32822] - Nrf2 antibody [N2C2], Internal detects Nrf2 protein at nucleus by immunofluorescent analysis. Sample: Neuro2A cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Nrf2 stained by Nrf2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:1000.



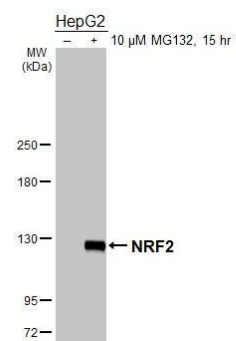
Immunohistochemistry-Paraffin: Nrf2 Antibody [NBP1-32822] - Nrf2 antibody [N2C2], Internal detects Nrf2 protein at cytoplasm and nucleus by immunohistochemical analysis. Sample: Paraffin-embedded human breast carcinoma. Nrf2 stained by Nrf2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



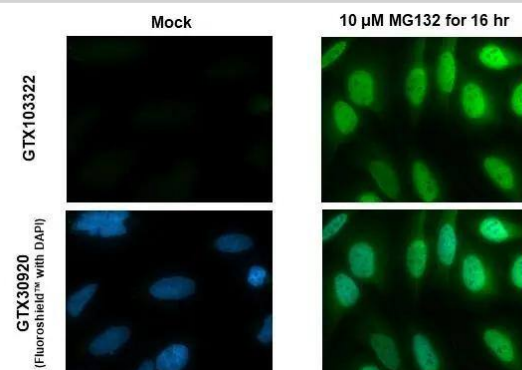
Immunocytochemistry/ Immunofluorescence: Nrf2 Antibody [NBP1-32822] - Nrf2 antibody [N2C2], Internal detects Nrf2 protein at nucleus by immunofluorescent analysis. Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Nrf2 stained by Nrf2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:1000. Red: phalloidin, a cytoskeleton marker, diluted at 1:200. Scale bar= 10  $\mu$ m.



Untreated (-) and treated (+) HepG2 whole cell extracts (30  $\mu$ g) were separated by 5% SDS-PAGE, and the membrane was blotted with Nrf2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:2000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

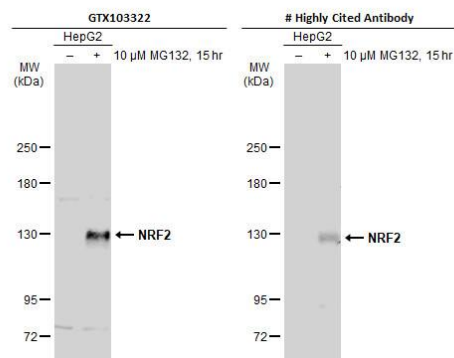


NRF2 antibody [N2C2], Internal detects NRF2 protein at nucleus by immunofluorescent analysis. Sample: Mock and treated HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: NRF2 stained by NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500. Blue: Fluoroshield with DAPI .



Untreated (-) and treated (+) HepG2 whole cell extracts (30  $\mu$ g) were separated by 5% SDS-PAGE, and the membranes were blotted with NRF2 antibody [N2C2], Internal (NBP1-32822) diluted at 1:500 and competitor's antibody diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

\*The competitor is not affiliated with Novus and does not endorse this product.



## Publications

Tamburini B, Liberto D, Pratelli G et al. Extra Virgin Olive Oil Polyphenol-Enriched Extracts Exert Antioxidant and Anti-Inflammatory Effects on Peripheral Blood Mononuclear Cells from Rheumatoid Arthritis Patients. *Antioxidants* (Basel, Switzerland) 2025-01-31 [PMID: 40002358]

Sipos A, Kerekes  $\square$ , Szeőcs D et al. Ursodeoxycholic acid prompts glycolytic dominance, reductive stress and epithelial-to-mesenchymal transition in ovarian cancer cells through NRF2 activation *Cell Death Discovery* 2025-04-03 [PMID: 40175359]

Di Lollo V, Canciello A, Peserico A et al. Unveiling the immunomodulatory shift: Epithelial-mesenchymal transition Alters immune mechanisms of amniotic epithelial cells *iScience* 2023-09-15 [PMID: 37680464]

Seok JH, Kim DH, Kim HJ et al. Epigallocatechin-3-gallate suppresses hemin-aggravated colon carcinogenesis through Nrf2-inhibited mitochondrial reactive oxygen species accumulation *Journal of Veterinary Science* 2022-08-18 [PMID: 36174978]

Hussein MM, Sayed RKA, Mokhtar DM. Structural and immunohistochemical analysis of the cellular compositions of the liver of molly fish (*Poecilia sphenops*), focusing on its immune role *Zoological Letters* 2023-01-05 [PMID: 36604695]

Lane SL, Parks JC, Russ JE et al. Increased Systemic Antioxidant Power Ameliorates the Aging-Related Reduction in Oocyte Competence in Mice *International Journal of Molecular Sciences* 2021-12-01 [PMID: 34884824]

K?I?  $\square$  GA, Alsafi M.  $\beta$ -Glucan Regulates Lipopolysaccharide Induced Genotoxic Damage to The Liver through The Induction of BRCA1 Protein Expression *Cell J* 2023-09-09 [PMID: 37718767]

Kshirsagar S, Alvir RV, Pradeepkiran JA et al. A Combination Therapy of Urolithin A+EGCG Has Stronger Protective Effects than Single Drug Urolithin A in a Humanized Amyloid Beta Knockin Mice for Late-Onset Alzheimer's Disease *Cells* 2022-08-27 [PMID: 36078067]

Xie T, Cai J, Yao Y et al. LXA4 protects against blue-light induced retinal degeneration in human A2E-laden RPE cells and Balb-c mice *Annals of Translational Medicine* 2021-08-01 [PMID: 34532386]

Zhang W, Xiao D, Li X et al. SIRT1 inactivation switches reactive astrocytes to an antiinflammatory phenotype in CNS autoimmunity *Journal of Clinical Investigation* 2022-11-15 [PMID: 36136587]

Sheinin R, Salomon K, Yeini E et Al. interFLOW: maximum flow framework for the identification of factors mediating the signaling convergence of multiple receptors *NPJ Syst Biol Appl* 2024-06-10 [PMID: 38858414]

Angori S, Lakshminarayanan H, Banaei-Esfahani A et Al. Exploiting NRF2-ARE pathway activation in papillary renal cell carcinoma *Int J Cancer* 2024-12-20 [PMID: 39707614]

More publications at <http://www.novusbio.com/NBP1-32822>





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Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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