

Product Datasheet

GATA-2 Antibody - BSA Free

NBP1-82581

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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NBP1-82581

GATA-2 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Target Molecular Weight	51 kDa

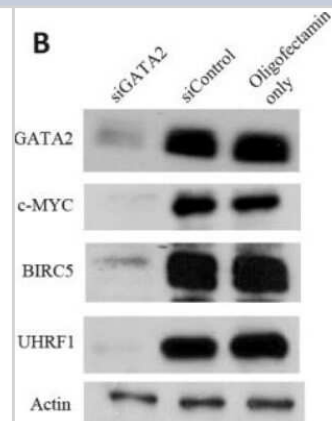
Product Description	
Host	Rabbit
Gene ID	2624
Gene Symbol	GATA2
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24583263).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LTGGQMCRPHLLHSPGLPWLDGGKAALSAAAAHHHNPWTVSPFSKTPLHPSA AGGPGGPLSVYPGAGGGGSGGGSGSSVASLTPTAAHSGSHLFGFPPTPPKEVS PDPSTTGAASPASSSAGGSAARG

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:100, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25 - 2 ug/mL, Immunoprecipitation Validated from a verified customer review, Immunohistochemistry-Paraffin 1:20 - 1:50, Immunohistochemistry-Frozen Reported in scientific literature (PMID 24583263)
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HEL, separated by Size, antibody dilution of 1:100, apparent MW was 66 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

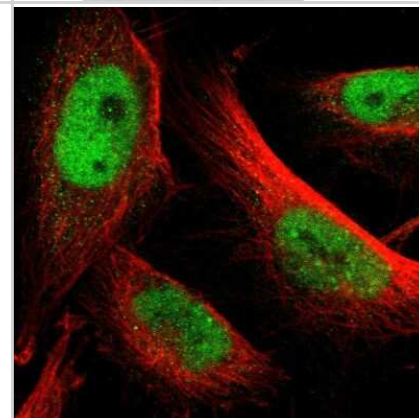


Images

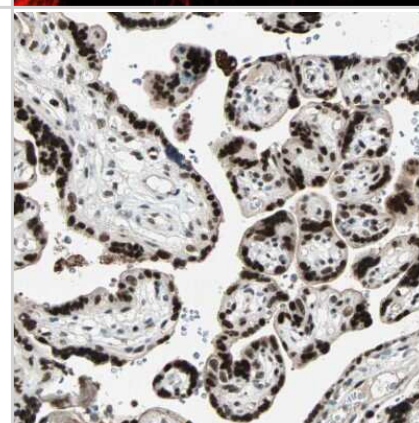
Western Blot: GATA-2 Antibody [NBP1-82581] - Microarray gene expression data. A number of genes were validated for gene expression changes by Western blot analysis. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/fulltext/1296>), licensed under a CC-BY license.



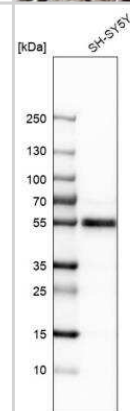
Immunocytochemistry/Immunofluorescence: GATA-2 Antibody [NBP1-82581] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: GATA-2 Antibody [NBP1-82581] - Staining of human placenta shows nuclear positivity in trophoblastic cells.



Western Blot: GATA-2 Antibody [NBP1-82581] - Analysis in human cell line SH-SY5Y.



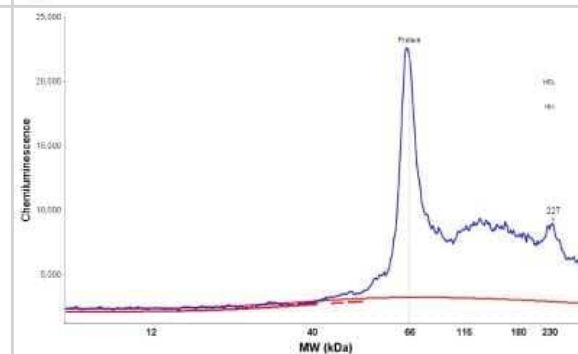
Immunohistochemistry-Paraffin: GATA-2 Antibody [NBP1-82581] - Staining of human kidney shows nuclear positivity in cells in tubules.



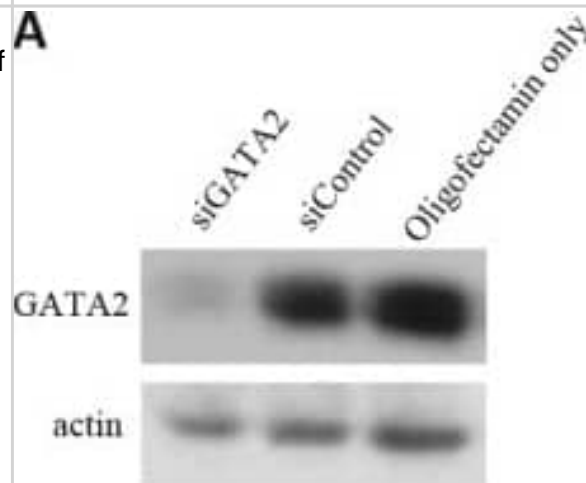
Simple Western: GATA-2 Antibody [NBP1-82581] - Simple Western lane view shows a specific band for GATA2 in 0.2 mg/mL of HELA lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



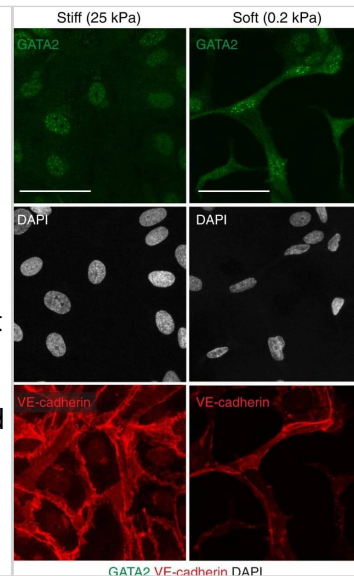
Simple Western: GATA-2 Antibody [NBP1-82581] - Electropherogram image(s) of corresponding Simple Western lane view. GATA-2 antibody was used at 1:100 dilution on HELA lysate(s).



Western Blot: GATA-2 Antibody [NBP1-82581] - Knock-down of GATA2 gene expression decreases proliferation, migration & matrigel invasion of prostate cancer cells. Treatment of LNCaP cells with siGATA2 leads to A, a marked reduction in GATA2 protein levels; & B, a marked decrease in cell proliferation. C, a monolayer of LNCaP cells was scratched to examine the rate of cell migration into the wounded area. The bar graph represents the percentage of cell-recovered wound areas after 8 hours of incubation (*, $p < 0.01$). Representative images of the wound captured at different time points are shown (at right). D & E, cell migration & matrigel invasion assays show a marked decrease in cell motility & tissue invasiveness of siGATA2-treated LNCaP cells. Bar graphs show the percentage of migrated/invaded cells after a 20-hr incubation. Results (A-E) shown are representative of three individual experiments with error bars representing standard deviation based on triplicates. Statistical significance was established using the Student's t-test. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/24448395>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



GATA2 regulation by matrix stiffness in LECs. a, b qRT-PCR analysis of GATA2 in human LECs (a) and primary mouse LECs (b) grown on soft (0.2 kPa) or stiff (25 kPa) matrix. $n = 3$ experiments, mean \pm s.e.m. p value, one-sample t -test. c Immunofluorescence of human LECs grown on stiff and soft matrix using antibodies against GATA2 (green) and VE-cadherin (red), and for DAPI to show nuclei (grey). LECs grown on soft matrix exhibit an overall higher expression of GATA2 as indicated by higher immunofluorescence intensity in both the nucleus and cytoplasm and have an elongated shape and a distorted nucleus. d Quantification of nuclear and cytoplasmic GATA2 protein in human LECs grown on soft (0.2 kPa) or stiff (25 kPa) matrix. Data represent mean pixel intensity ($n = 8$ images with 8–24 cells per image (soft), and $n = 8$ images with 21–37 cells per image (stiff) from 3 experiments) \pm s.e.m. p value, unpaired Student's t -test. Scale bars: 50 μ m Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29666442>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Yoji Kojima, Chika Yamashiro, Yusuke Murase, Yukihiro Yabuta, Ikuhiro Okamoto, Chizuru Iwatani et al. GATA transcription factors, SOX17 and TFAP2C, drive the human germ-cell specification program *Life Science Alliance* 2021-05-01 [PMID: 33608411]

Kazenwadel J, Venugopal P, Oszmiana A et al. A Prox1 enhancer represses haematopoiesis in the lymphatic vasculature *Nature* 2023-01-25 [PMID: 36697821] (IHC-WhMt, Mouse)

Details:

See extended data Fig. 7. Lots used C76352 and 000035473, Dilution used 1:500

Yang Y, Cha B, Motawe ZY et al. VE-Cadherin Is Required for Lymphatic Valve Formation and Maintenance *Cell Rep* 2019-08-27 [PMID: 31461654]

Buscheck F, Zub M, Heumann A et al. The independent prognostic impact of the GATA2 pioneering factor is restricted to ERG-negative prostate cancer *Tumour Biol.* 2019-07-01 [PMID: 31296150] (IF/IHC, Human)

Pichol-Thievend C, Betterman KL, Liu X et al. A blood capillary plexus-derived population of progenitor cells contributes to genesis of the dermal lymphatic vasculature during embryonic development *Development* 2018-05-17 [PMID: 29773646] (Mouse)

Frye M, Taddei A, Dierkes C et al. Matrix stiffness controls lymphatic vessel formation through regulation of a GATA2-dependent transcriptional program. *Nat Commun* 2018-04-17 [PMID: 29666442] (ICC/IF)

Chiang YT. Identification of metastasis-driving genes as potential therapeutic targets/biomarkers for metastatic prostate cancer (Thesis Supervisor - Dr. Yuzhuo Wang, BC Cancer Agency Research Centre, Canada) Thesis 2015-01-01 (ICC/IF, WB, IHC-P, Human)

Chiang Yan Ting, Wang Kendric, Fazli Ladan et al. GATA2 as a potential metastasis-driving gene in prostate cancer. *Oncotarget.* 2014-01-30 [PMID: 24448395] (IF/IHC, Human)

Shi X, Richard J, Zirbes KM et al. Cooperative interaction of Etv2 and Gata2 regulates the development of endothelial and hematopoietic lineages. *Dev. Biol.* 2014-03-03 [PMID: 24583263] (IHC-Fr, Mouse)



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Products Related to NBP1-82581

NBP1-82581PEP	GATA-2 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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