

Product Datasheet

Neogenin Antibody - BSA Free NBP1-89651

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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Updated 12/2/2025 v.20.1

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NBP1-89651

Neogenin 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

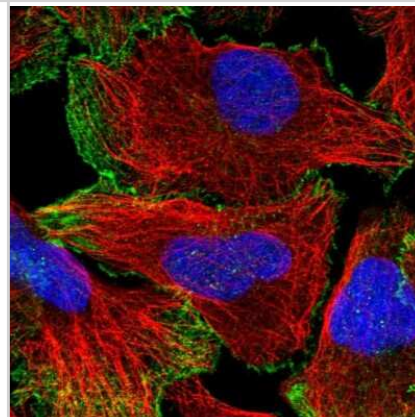
Product Description	
Description	Novus Biologicals Rabbit Neogenin Antibody - BSA Free (NBP1-89651) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Neogenin Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4756
Gene Symbol	NEO1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in the scientific literature (PMID: 30333477)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SVNGSHKYKGNKDKVPPDLWIHHERLELKPIDKSPDPNPIMTDTPIPRNSQDIT PVDNSMDSNIHQRRNSYRGHESEDSMSTLAGR

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:20 - 1:50, Immunohistochemistry-Frozen Reported in scientific literature (PMID: 30333477)
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

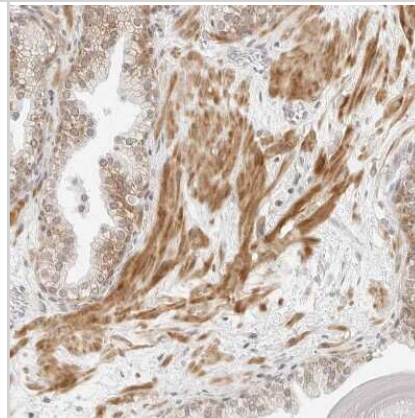


Images

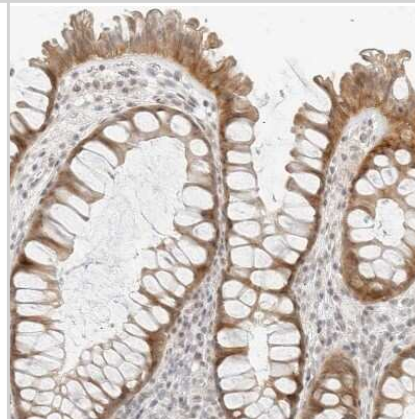
Immunocytochemistry/Immunofluorescence: Neogenin Antibody [NBP1-89651] - Staining of human cell line U-2 OS shows localization to nucleoplasm & plasma membrane. Antibody staining shown in green.



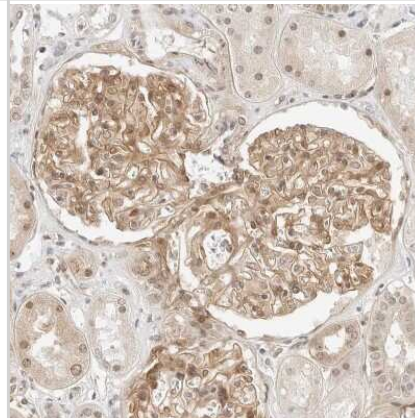
Immunohistochemistry-Paraffin: Neogenin Antibody [NBP1-89651] - Staining of human prostate shows moderate cytoplasmic positivity in smooth muscle cells.



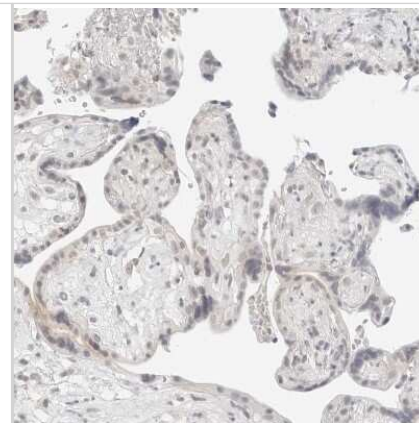
Immunohistochemistry-Paraffin: Neogenin Antibody [NBP1-89651] - Staining of human colon shows moderate cytoplasmic and membranous positivity in glandular cells.



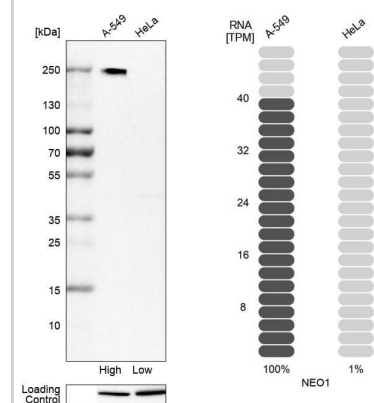
Immunohistochemistry-Paraffin: Neogenin Antibody [NBP1-89651] - Staining of human kidney shows moderate membranous positivity in cells in glomeruli.



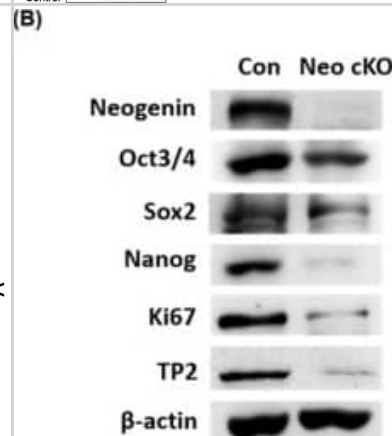
Immunohistochemistry-Paraffin: Neogenin Antibody [NBP1-89651] - Staining of human placenta shows no positivity in trophoblastic cells as expected.



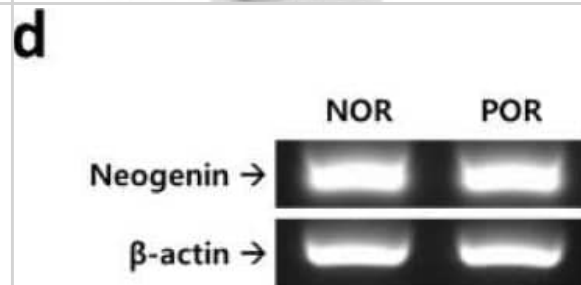
Analysis in human cell lines A-549 and HeLa using Anti-NEO1 antibody. Corresponding NEO1 RNA-seq data are presented for the same cell lines. Loading control: Anti-PARP1.



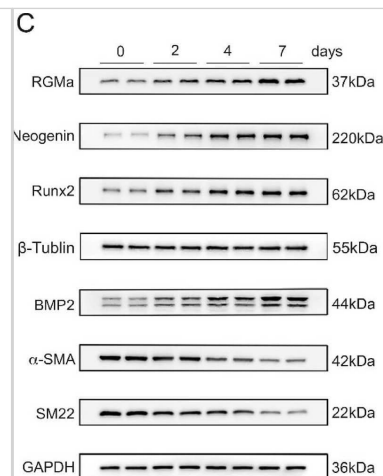
Expression profiling of spermatogonial stem cell markers in control and neogenin-cKO testes. Neogenin was conditionally knocked out in the mouse testis by CRISPR-Cas9 as described in the Materials and Methods. (A) Quantitative real-time PCR analysis of relative mRNA expression of neogenin, Oct3/4, Sox2, and Nanog normalized against that of β -actin. ($n = 3$) (B) Proteins extracted from testicular tissues at postnatal day 26 were analyzed by Western blotting. β -actin was used as a housekeeping protein. Con: control testis; Neo cKO: neogenin conditional knock-out testis. Data are the mean \pm SD of triplicates. * $p < 0.05$ and *** $p < 0.001$ versus control by the Student's t-test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36499089>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



An ELISA of PGD2 in human follicular fluid and the culture medium of RGMc-treated CCs. (a) The PGD2 level in follicular fluid of patients with a POR and young and old patients with a normal ovarian response. (b,c) The ELISA data of PGD2 level in the culture media of RGMc-treated CCs obtained from (b) patients with a normal ovarian response and (c) patients with a POR. (d) Gene expression of neogenin in human CCs of normal and POR patients. All assays were repeated three times with different samples for statistical analysis. * $p < 0.05$ and *** $p < 0.001$ versus the young and old normal ovarian response groups. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/33801938>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Involvement of RGMa in the osteogenic transdifferentiation of VSMCs in vitro. (A) Representative images of Alizarin red S staining and magnification. Red is the positive signal of calcification labelled by alizarin. (B) Representative images of RGMa and α -SMA immunofluorescence double labelling. α -SMA (green); RGMa (red). Scale bar = 50 μ m. (C–I) Representative WB images of RGMa, Neogenin and vascular smooth muscle osteogenic transdifferentiation-related markers (C) and quantitative analysis of RGMa (D), Neogenin (E), Runx2 (F), BMP2 (G), α -SMA (H), SM22 α (I). n=6 per group, ns indicates not significant, *P < 0.05, **P < 0.01, ***P < 0.001, one-way ANOVA. Original blots/gels are available in Supplementary Figure S3. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40634394>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Xiao H, Shen G, Wang Z et al. Knockdown of RGMa reduces vascular calcification by inhibiting the AKT signaling pathway *Scientific Reports* 2025-07-09 [PMID: 40634394]

Yuan X, Xiao H, Hu Q et al. RGMa promotes dedifferentiation of vascular smooth muscle cells into a macrophage-like phenotype in \square vivo and in \square vitro *Journal of Lipid Research* 2022-10-01 [PMID: 36089003] (Immunohistochemistry)

A Abdullah, C Herdenberg, H Hedman Netrin-1 functions as a suppressor of bone morphogenetic protein (BMP) signaling *Scientific Reports*, 2021-04-21;11(1):8585. 2021-04-21 [PMID: 33883596]

Park JW, Kim YJ, Lee SJ et al. Down-Regulation of Neogenin Decreases Proliferation and Differentiation of Spermatogonia during the Early Phase of Spermatogenesis *International journal of molecular sciences* 2022-11-25 [PMID: 36499089] (IHC-P, Rat)

Details:

1:100 IHC-P dilution

Untiveros G, Raskind A, Linares L et al. Netrin-1 Stimulates Migration of Neogenin Expressing Aggressive Melanoma Cells *International Journal of Molecular Sciences* 2022-10-22 [PMID: 36361539] (ICC/IF, Human)

Jiang RC, Zheng XY, Yang SL Et al. CD146 mediates the anti-apoptotic role of Netrin-1 in endothelial progenitor cells under hypoxic conditions *Molecular medicine reports* 2022-01-01 [PMID: 34738629] (WB, Mouse)

Kim Y, Park Y, Park Y et al. Role of RGMc as a Neogenin Ligand in Follicular Development in the Ovary *Biomedicines* 2021-03-10 [PMID: 33801938] (WB, Mouse)

Tanabe S, Fujita Y, Ikuma k, Yamashita T. Inhibiting repulsive guidance molecule-a suppresses secondary progression in mouse models of multiple sclerosis. *Cell Death Dis.* 2018-10-17 [PMID: 30333477] (IHC-Fr, Mouse)

Tanabe S, Yamashita T. Repulsive Guidance Molecule-a Is Involved in Th17-Cell-Induced neurodegeneration in Autoimmune Encephalomyelitis. *Cell Rep.* 2014-11-20 [PMID: 25456136] (IF/IHC)



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Products Related to NBP1-89651

NBP1-89651PEP	Neogenin Recombinant Protein Antigen
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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