

# 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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#### Publications: 8

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**NBP1-89651**

Neogenin 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>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

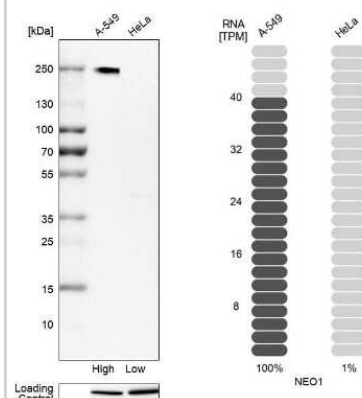
<b>Host</b>	Rabbit
<b>Gene ID</b>	4756
<b>Gene Symbol</b>	NEO1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in the scientific literature (PMID: 30333477)
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: SVNGSHKYKGNKDVKPPDLWIHHERLELKPIDKSPDPNPIMTDTPIPRNSQDIT PVDNSMDSNIHQRRNSYRGHESEDSMSTLAGR

**Product Application Details**

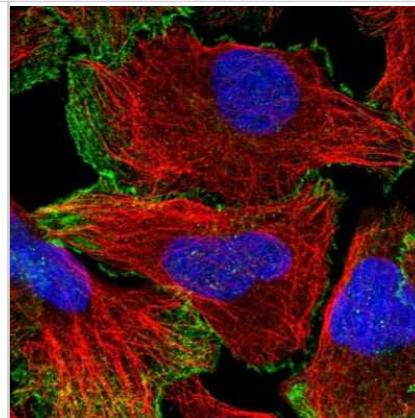
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml,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

**Images**

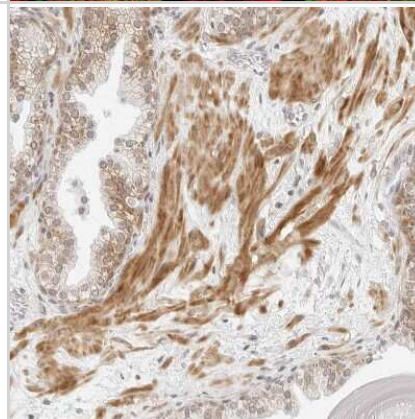
Western Blot: Neogenin Antibody [NBP1-89651] - Analysis in human cell lines A-549 and HeLa using anti-NEO1 antibody. Corresponding NEO1 RNA-seq data are presented for the same cell lines. Loading control: anti-PARP1.



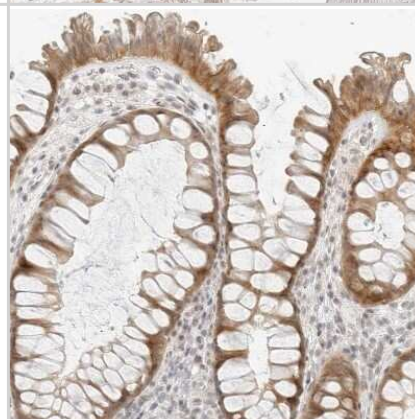
Immunocytochemistry/Immunofluorescence: Neogenin Antibody [NBP1-89651] - Staining of human cell line U-2 OS shows localization to nucleoplasm & plasma membrane. Antibody staining shown in green.



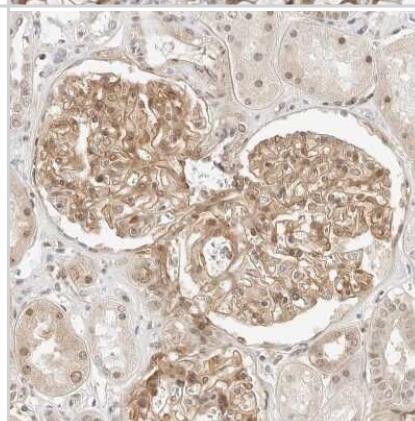
Immunohistochemistry-Paraffin: Neogenin Antibody [NBP1-89651] - Staining of human prostate shows moderate cytoplasmic positivity in smooth muscle cells.



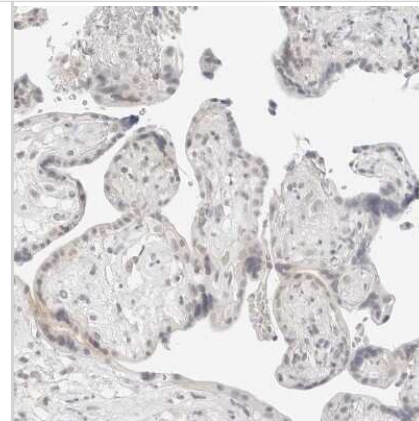
Immunohistochemistry-Paraffin: Neogenin Antibody [NBP1-89651] - Staining of human colon shows moderate cytoplasmic and membranous positivity in glandular cells.



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.



## Publications

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]

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] (Western Blot)

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**

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NBP1-89651PEP	Neogenin 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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### **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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