

# neogenin (C-20): sc-6536

## BACKGROUND

Neogenin (NGN) was first identified in chicken as a highly regulated protein in the developing nervous system and gastrointestinal tract. The human homolog is roughly 50% identical to the protein DCC (deleted in colorectal cancer), a candidate tumor suppressor that is also involved in neural development. DCC and neogenin may play complementary roles in the generation of the fully functional central nervous system. Neogenin is expressed in most normal tissues; in contrast to DCC, it is also detected at normal levels in cancer tissues. Neogenin is a member of the N-CAM family of cell adhesion molecules and is expressed on the surfaces of growing nerve cells as well as in a number of other developing embryonic tissues.

## CHROMOSOMAL LOCATION

Genetic locus: NEO1 (human) mapping to 15q24.1; Neo1 (mouse) mapping to 9 B.

## SOURCE

neogenin (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of neogenin of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6536 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

neogenin (C-20) is recommended for detection of neogenin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

neogenin (C-20) is also recommended for detection of neogenin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for neogenin siRNA (h): sc-36028, neogenin siRNA (m): sc-36029, neogenin shRNA Plasmid (h): sc-36028-SH, neogenin shRNA Plasmid (m): sc-36029-SH, neogenin shRNA (h) Lentiviral Particles: sc-36028-V and neogenin shRNA (m) Lentiviral Particles: sc-36029-V.

Molecular Weight of neogenin: 175 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or A549 cell lysate: sc-2413.

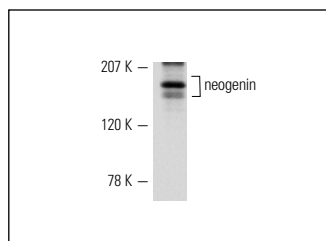
## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

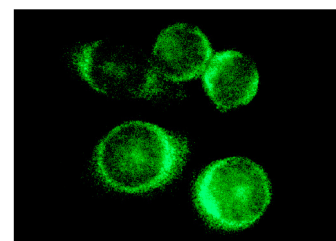
## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## DATA



neogenin (C-20): sc-6536. Western blot analysis of neogenin expression in HeLa whole cell lysate.



neogenin (C-20): sc-6536. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane staining.

## SELECT PRODUCT CITATIONS

1. Murase, S., et al. 2002. Deleted in colorectal carcinoma and differentially expressed integrins mediate the directional migration of neural precursors in the rostral migratory stream. *J. Neurosci.* 22: 3568-3579.
2. Koppers, R., et al. 2003. Identification of Hodgkin and Reed-Sternberg cell-specific genes by gene expression profiling. *J. Clin. Invest.* 111: 529-537.
3. Zhang, L., et al. 2004. Cocaine-induced intracellular signaling and gene expression are oppositely regulated by the dopamine D1 and D3 receptors. *J. Neurosci.* 24: 3344-3354.
4. Tsuchiya, A., et al. 2007. Expression of netrin-1 and its receptors DCC and neogenin in rat brain after ischemia. *Brain Res.* 1159: 1-7.
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6. Conrad, S., et al. 2007. Neogenin-RGMA signaling at the growth cone is bone morphogenetic protein-independent and involves RhoA, ROCK, and PKC. *J. Biol. Chem.* 282: 16423-16433.
7. Goldschneider, D., et al. 2008. The neogenin intracellular domain regulates gene transcription via nuclear translocation. *Mol. Cell. Biol.* 28: 4068-4079.
8. Koeberle, P.D., et al. 2010. The repulsive guidance molecule, RGMA, promotes retinal ganglion cell survival *in vitro* and *in vivo*. *Neuroscience* 169: 495-504.

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Try **neogenin (G-7): sc-514872**, our highly recommended monoclonal alternative to neogenin (C-20).