

#39447 Store at -20°C

## Neogenin (D7M8E) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	210	Rabbit IgG	#Q92859	4756

## Product Usage Information

## Application

Western Blotting

## Dilution

1:1000

Immunoprecipitation

1:50

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

Neogenin (D7M8E) Rabbit mAb recognizes endogenous levels of total neogenin protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile1250 of human neogenin protein.

## Background

Neogenin is a member of the Deleted in Colorectal Cancer (DCC) receptor family. It acts as an attractive axon guidance receptor in response to netrin, and as a repellent receptor when interacting with RGMa (1,2). Neogenin also regulates adhesion and tissue organization, such as bone formation, mammary gland morphogenesis, and skeletal myofiber development, by interacting with secreted netrins (3-5). In addition, neogenin is a key regulator of adult neurogenesis by synchronizing neuroblast migration and differentiation (6). Neogenin expression has been found to be associated with cellular phenotype in cancer. In breast cancer, neogenin expression is inversely correlated with cancer grade (7), while in gastric cancer, up regulation of neogenin was found to increase cell proliferation and motility (8).

## Background References

1. Rajagopalan, S. et al. (2004) *Nat Cell Biol* 6, 756-62.
2. Wilson, B.D. et al. (2006) *Science* 313, 640-4.
3. Kang, J.S. et al. (2004) *J Cell Biol* 167, 493-504.
4. Srinivasan, K. et al. (2003) *Dev Cell* 4, 371-82.
5. Hagihara, M. et al. (2011) *J Biol Chem* 286, 5157-65.
6. O'Leary, C.J. et al. (2015) *Stem Cells* 33, 503-14.
7. Xing, W. et al. (2014) *World J Surg Oncol* 12, 352.
8. Kim, S.J. et al. (2014) *Oncotarget* 5, 3386-98.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

WB: Western Blotting IP: Immunoprecipitation

## Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster  
X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse  
GP: Guinea Pig Rab: rabbit All: all species expected

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