

# Neogenin Rabbit pAb

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Catalog # AP57797

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Primary Accession</b>       | <a href="#">Q92859</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Predicted</b>               | Rat, Dog, Human, Mouse, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Calculated MW</b>           | 160017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human Neogenin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Epitope Specificity</b>     | 1001-1100/1461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Buffer</b>                  | Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SUBCELLULAR LOCATION</b>    | Cell membrane; Single-pass type I membraneprotein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Background Descriptions</b> | This gene encodes a cell surface protein that is a member of the immunoglobulin superfamily. The encoded protein consists of four N-terminal immunoglobulin-like domains, six fibronectin type III domains, a transmembrane domain and a C-terminal internal domain that shares homology with the tumor suppressor candidate gene DCC. This protein may be involved in cell growth and differentiation and in cell-cell adhesion. Defects in this gene are associated with cell proliferation in certain cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]. |

## Additional Information

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| <b>Gene ID</b>     | 4756                                                                                                                                                                                            |
| <b>Other Names</b> | Neogenin, Immunoglobulin superfamily DCC subclass member 2, NEO1, IGDC2, NGN                                                                                                                    |
| <b>Dilution</b>    | IHC-P=1:100-500, IHC-F=1:100-500, ICC/IF=1:100-500, IF=1:100-500, ELISA=1:500-10000                                                                                                             |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| <b>Name</b>              | NEO1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>          | IGDCC2, NGN                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Function</b>          | Multi-functional cell surface receptor regulating cell adhesion in many diverse developmental processes, including neural tube and mammary gland formation, myogenesis and angiogenesis. Receptor for members of the BMP, netrin, and repulsive guidance molecule (RGM) families. Netrin-Neogenin interactions result in a chemoattractive axon guidance response and cell-cell adhesion, the interaction between NEO1/Neogenin and RGMa and RGMb induces a chemorepulsive response. |
| <b>Cellular Location</b> | Cell membrane; Single-pass type I membrane protein                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Location</b>   | Widely expressed and also in cancer cell lines.                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.