NEO1 Antibody (Center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NEO1, Blocking Peptide
Full Product Name	NEO1 Antibody (Center) Blocking Peptide
Product Gene Name	NEO1 blocking peptide
Product Synonym Gene Name	IGDCC2; NGN
Product Synonym Names	Neogenin; Immunoglobulin superfamily DCC subclass member 2; NEO1; IGDCC2; NGN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NEO1 peptide (MBS9222869) is used for blocking the activity of NEO1 antibody (MBS9207259)
Molecular Weight	158,827 Da
OMIM	601907
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Widely expressed and also in cancer cell lines
Related Product Information for NEO1 blocking peptide	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.
Other Notes	Small volumes of NEO1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NEO1 purchase	MBS9222869 is a blocking peptide targeting NEO1. Also known as NEO1 Antibody (Center) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEO1. It may not necessarily be applicable to this product.

NCBI GI #	116242676
NCBI GeneID	4756
NCBI Accession #	Q92859.2
UniProt Primary Accession #	Q92859
UniProt Secondary Accession #	O00340; Q17RX1; B7ZKM9; B7ZKN0
UniProt Related Accession #	Q92859
NCBI Official Full Name	Neogenin
NCBI Official Synonym Full Names	neogenin 1
NCBI Official Symbol	NEO1
NCBI Official Synonym Symbols	NGN; IGDCC2; NTN1R2

UniProt Protein Name	Neogenin
UniProt Synonym Protein Names	Immunoglobulin superfamily DCC subclass member 2
Protein Family	Neogenin
UniProt Gene Name	NEO1
UniProt Synonym Gene Names	IGDCC2; NGN
UniProt Entry Name	NEO1_HUMAN
NCBI Protein Information	neogenin
NCBI Summary for NEO1	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. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]
UniProt Comments for NEO1	NEO1: May be involved as a regulatory protein in the transition of undifferentiated proliferating cells to their differentiated state. May also function as a cell adhesion molecule in a broad spectrum of embryonic and adult tissues. Belongs to the immunoglobulin superfamily. DCC family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 15q22.3-q23 Cellular Component: Golgi apparatus; nucleoplasm; plasma membrane Biological Process: iron ion homeostasis
Research Articles on NEO1	**1.** Ntn4 promotes the proliferation and motility of gastric cancer cells which is mediated by its receptor Neo and through further activation of multi-oncogenic pathways
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