PLXNC1 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PLXNC1, Blocking Peptide
Full Product Name	PLXNC1 Antibody (C-term) Blocking peptide
Product Gene Name	PLXNC1 blocking peptide
Product Synonym Gene Name	VESPR
Product Synonym Names	Plexin-C1; Virus-encoded semaphorin protein receptor; CD232; PLXNC1; VESPR
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.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of PLXNC1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
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	PLXNC1 peptide (MBS9220021) is used for blocking the activity of PLXNC1 antibody (MBS9209219)
Molecular Weight	175,742 Da
OMIM	604259
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Detected in heart, brain, lung, spleen and placenta.
Related Product Information for PLXNC1 blocking peptide	Receptor for SEMA7A, for smallpox semaphorin A39R, vaccinia virus semaphorin A39R and for herpesvirus Sema protein. Binding of semaphorins triggers cellular responses leading to the rearrangement of the cytoskeleton and to secretion of IL6 and IL8 (By similarity).
Other Notes	Small volumes of PLXNC1 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 PLXNC1 purchase	MBS9220021 is a blocking peptide targeting PLXNC1. Also known as PLXNC1 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PLXNC1. It may not necessarily be applicable to this product.

NCBI GI #	74705745
NCBI GeneID	10154
NCBI Accession #	O60486.1
UniProt Primary Accession #	O60486
UniProt Secondary Accession #	Q59H25
UniProt Related Accession #	O60486
NCBI Official Full Name	Plexin-C1
NCBI Official Synonym Full Names	plexin C1

NCBI Official Symbol	PLXNC1
NCBI Official Synonym Symbols	CD232; VESPR; PLXN-C1
UniProt Protein Name	Plexin-C1
UniProt Synonym Protein Names	Virus-encoded semaphorin protein receptor; CD_antigen: CD232
Protein Family	Plexin
UniProt Gene Name	PLXNC1
UniProt Synonym Gene Names	VESPR
UniProt Entry Name	PLXC1_HUMAN
NCBI Protein Information	plexin-C1
NCBI Summary for PLXNC1	This gene encodes a member of the plexin family. Plexins are transmembrane receptors for semaphorins, a large family of proteins that regulate axon guidance, cell motility and migration, and the immune response. The encoded protein and its ligand regulate melanocyte adhesion, and viral semaphorins may modulate the immune response by binding to this receptor. The encoded protein may be a tumor suppressor protein for melanoma. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for PLXNC1	PLXNC1: Receptor for SEMA7A, for smallpox semaphorin A39R, vaccinia virus semaphorin A39R and for herpesvirus Sema protein. Binding of semaphorins triggers cellular responses leading to the rearrangement of the cytoskeleton and to secretion of IL6 and IL8. Belongs to the plexin family. Protein type: Cell adhesion; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 12q23.3 Cellular Component: integral to plasma membrane; membrane; plasma membrane Molecular Function: protein binding; receptor binding; semaphorin receptor activity Biological Process: branchiomotor neuron axon guidance; cell adhesion; regulation of axon extension involved in axon guidance; regulation of cell migration
Research Articles on PLXNC1	**1.** loss of Plexin C1 in melanoma may promote early steps in melanoma progression through suppression of migration and proliferation
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