PDPN Blocking Peptide

PRODUCT OVERVIEW

Product Name	PDPN, Blocking Peptide
Full Product Name	PDPN Peptide
Product Gene Name	PDPN blocking peptide
Product Synonym Gene Name	GP36; GP40; Gp38; HT1A-1; OTS8; PA2.26; T1A; T1A-2; AGGRUS
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	PDPN peptide (MBS3232387) is used for blocking the activity of PDPN antibody (MBS3207422)
Molecular Weight	25kDa
OMIM	608863
Product Categories/Family for PDPN blocking peptide	Peptide
Applications Tested/Suitable for PDPN blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for PDPN blocking peptide	This is a synthetic peptide designed for use in combination with anti-PDPN antibody made Target Description: PDPN is a type-I integral membrane glycoprotein with diverse distribution in human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury.This gene encodes a type-I integral membrane glycoprotein with diverse distribution in human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury. Alternatively spliced transcript variants encoding different isoforms have been identified.
Other Notes	Small volumes of PDPN 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 PDPN purchase	MBS3232387 is a blocking peptide targeting PDPN. Also known as PDPN Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	54792056
NCBI GeneID	10630
NCBI Accession #	NP_006465
UniProt Primary Accession #	Q86YL7
UniProt Related Accession #	Q86YL7
GenBank Nucleotide #	NM_006474

NCBI Official Full Name	podoplanin isoform a
NCBI Official Synonym Full Names	podoplanin
NCBI Official Symbol	PDPN
NCBI Official Synonym Symbols	T1A; GP36; GP40; Gp38; OTS8; T1A2; TI1A; T1A-2; AGGRUS; HT1A-1; PA2.26
UniProt Protein Name	Podoplanin
UniProt Synonym Protein Names	Aggrus; Glycoprotein 36; Gp36; PA2.26 antigen; T1-alpha
Protein Family	Podoplanin
UniProt Gene Name	PDPN
UniProt Synonym Gene Names	GP36; Gp36; T1A
UniProt Entry Name	PDPN_HUMAN
NCBI Protein Information	podoplanin
NCBI Summary for PDPN	This gene encodes a type-I integral membrane glycoprotein with diverse distribution in human tissues. The physiological function of this protein may be related to its mucin-type character. The homologous protein in other species has been described as a differentiation antigen and influenza-virus receptor. The specific function of this protein has not been determined but it has been proposed as a marker of lung injury. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for PDPN	PDPN: May be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protrusions, major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. Required for normal lung cell proliferation and alveolus formation at birth. Induces platelet aggregation. Does not have any effect on folic acid or amino acid transport. Does not function as a water channel or as a regulator of aquaporin-type water channels. Belongs to the podoplanin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 1p36.21 Cellular Component: ruffle; filopodium membrane; lamellipodium; integral to plasma membrane; microvillus membrane; apical plasma membrane; plasma membrane; filopodium; external side of plasma membrane Molecular Function: folic acid transporter activity; water transporter activity; water channel activity; amino acid transmembrane transporter activity Biological Process: nervous system development; water transport; cell morphogenesis; positive regulation of cell motility; signal transduction; prostaglandin metabolic process; folic acid transport; cell proliferation; regulation of cell shape; cell-cell adhesion; response to hyperoxia; amino acid transport; lymphangiogenesis; tube morphogenesis; inflammatory response; alveolus development; lung development; positive regulation of cell migration
Research Articles on PDPN	**1.** Podoplanin+ fibroblast infiltration significantly decreased overall survival (OS) and disease-free survival in all types of solid tumors. In stratified analyses, podoplanin+ fibroblast infiltration was significantly associated with worse OS in cholangiocarcinoma, breast, lung and pancreatic cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/pdpn/3232387