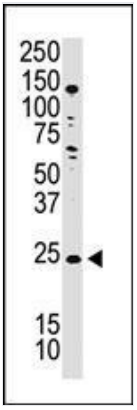
Podoplanin (PDPN) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Podoplanin (PDPN), Polyclonal Antibody
Full Product Name	Podoplanin, NT (Glycoprotein 36, GP36, PA2.26 Antigen, T1-alpha, T1A, Aggrus, PDPN, PSEC0003, PSEC0025) (MaxLight 490)
Product Gene Name	anti-PDPN antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human Podoplanin.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	12,421 Da
OMIM	608863
3D Structure	ModBase 3D Structure for Q86YL7
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 33-36 in the N-terminal region of human Podoplanin.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-PDPN antibody	Antibodies; Carbohydrates; Glycoproteins
Applications Tested/Suitable for anti-PDPN antibody	FLISA, Western Blot (WB)
Application Notes for anti-PDPN antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PDPN antibody	T1A-2 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.
Product References and Citations for anti-PDPN antibody	1. Kato, Y., et al., J. Biol. Chem. 278(51):51599-51605 (2003). 2. Ma, T., et al., Am. J. Respir. Cell Mol. Biol. 19(1):143-149 (1998). 3. Zimmer, G., et al., Biochem. J. 341 (Pt 2), 277-284 (1999).
Other Notes	Small volumes of anti-PDPN antibody 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	MBS6495329 is an antibody targeting PDPN. Also known as Podoplanin, NT (Glycoprotein 36, GP36, PA2.26 Antigen, T1-alpha, T1A, Aggrus, PDPN, PSEC0003, PSEC0025) (MaxLight 490). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PDPN antibody
Western Blot analysis of NCI-H460 cell lysate, usingMBS6009961. Podoplanin (Arrow) was detected usingMBS6009961. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

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 Secondary Accession #	O60836; O95128; Q7L375; Q8NBQ8; Q8NBR3; A9Z1Y2; B2R6J8; E9PB68; F6QWX5
UniProt Related Accession #	Q86YL7
GenBank Nucleotide #	NM_006474.4
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.** Review of C-type lectin-like receptor 2 and podoplanin interactions [review]
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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.

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Online datasheet: https://www.mybiosource.com/polyclonal-pdpn-human-antibody/podoplanin/6495329