PDGFD Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PDGFD, Monoclonal Antibody
Full Product Name	PDGFD (Platelet-derived Growth Factor D, PDGF-D, Iris-expressed Growth Factor, Spinal Cord-derived Growth Factor B, SCDGF-B, IEGF, SCDGFB, MSTP036, UNQ1899/PRO4345, MGC26867) (MaxLight 490)
Product Gene Name	anti-PDGFD antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	4H2
Host	Mouse
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 Affinity Chromatography.
Specificity	Recognizes human PDGFD.
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.
OMIM	609673
3D Structure	ModBase 3D Structure for Q9GZP0
Immunogen	Partial recombinant corresponding to aa24-124 from human PDGFD (NP_149126) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	TPQSASIKALRNANLRRDDLYRRDETIQVKGNGYVQSPRFPNSYPRNLLLTWRLHSQENTRIQLVFDNQFGLEEAENDICRYDFVEVEDISETSTIIRGR
Conjugate	MaxLight490
Product Categories/Family for anti-PDGFD antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-PDGFD antibody	FLISA, Immunoprecipitation (IP)
Application Notes for anti-PDGFD antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-PDGFD antibody	The platelet-derived growth factor (PDGF) family consists of four disulfide-linked homodimers and one heterodimer (PDGF-AB). These proteins regulate diverse cellular functions through interactions with PDGF Ra and Rb. Mature PDGF-DD associates with PDGF Rb and triggers signaling through PDGF Rb homodimers and PDGF Ra/b heterodimers. The human PDGF-DD cDNA encodes a 370aa precursor that includes a 23aa signal sequence, one CUB domain, and one PDGF/VEGF domain. The PDGF/VEGF domain shares 27-35aa sequence identity with the corresponding regions of other PDGF family members. Human PDGF-DD shares 87aa sequence identity with mouse and rat PDGF-DD. PDGF-DD is secreted as a100kD latent homodimer which is activated by proteolysis to release a 35kD bioactive protein containing the PDGF/VEGF homology domain. A splice variant of PDGF-DD has a 6aa deletion near the N-terminus. A 72aa deletion within the PDGF/VEGF domain generates an inactive protein in mouse but has not been detected in human. PDGF-DD is widely expressed in embryonic and adult tissues, and PDGF Rb is expressed in a generally complementary pattern. PDGF-DD functions as a growth factor for renal artery smooth muscle cells and lens epithelial cells, and as a macrophage chemoattractant. PDGF-DD is overexpressed in and contributes to several disease states, including renal and hepatic fibrosis, mesangial proliferative glomerulopathy, pulmonary lymphoid infiltration, and many cancers. PDGF-DD functions in both paracrine and autocrine manners.
Other Notes	Small volumes of anti-PDGFD 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 PDGFD purchase	MBS6202391 is an antibody targeting PDGFD. Also known as PDGFD (Platelet-derived Growth Factor D, PDGF-D, Iris-expressed Growth Factor, Spinal Cord-derived Growth Factor B, SCDGF-B, IEGF, SCDGFB, MSTP036, UNQ1899/PRO4345, MGC26867) (MaxLight 490). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	15451921
NCBI GeneID	80310
NCBI Accession #	NP_149126
UniProt Primary Accession #	Q9GZP0
UniProt Related Accession #	Q9GZP0
GenBank Nucleotide #	NM_033135
NCBI Official Full Name	platelet-derived growth factor D isoform 2
NCBI Official Synonym Full Names	platelet derived growth factor D
NCBI Official Symbol	PDGFD
NCBI Official Synonym Symbols	IEGF; SCDGFB; MSTP036; SCDGF-B
UniProt Protein Name	Platelet-derived growth factor D
UniProt Synonym Protein Names	Iris-expressed growth factor; Spinal cord-derived growth factor B
Protein Family	Platelet-derived growth factor
UniProt Gene Name	PDGFD
UniProt Synonym Gene Names	IEGF; SCDGFB; PDGF-D; SCDGF-B; PDGFD latent form
UniProt Entry Name	PDGFD_HUMAN
NCBI Protein Information	platelet-derived growth factor D
NCBI Summary for PDGFD	The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a core motif of eight cysteines, seven of which are found in this factor. This gene product only forms homodimers and, therefore, does not dimerize with the other three family members. It differs from alpha and beta members of this family in having an unusual N-terminal domain, the CUB domain. Two splice variants have been identified for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for PDGFD	PDGFD: Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Plays an important role in wound healing. Induces macrophage recruitment, increased interstitial pressure, and blood vessel maturation during angiogenesis. Can initiate events that lead to a mesangial proliferative glomerulonephritis, including influx of monocytes and macrophages and production of extracellular matrix. Belongs to the PDGF/VEGF growth factor family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted; Oncoprotein Chromosomal Location of Human Ortholog: 11q22.3 Cellular Component: Golgi membrane; endoplasmic reticulum lumen; extracellular region Molecular Function: growth factor activity; platelet-derived growth factor receptor binding Biological Process: multicellular organismal development; positive regulation of cell division; platelet-derived growth factor receptor signaling pathway; regulation of peptidyl-tyrosine phosphorylation
Research Articles on PDGFD	**1.** We report the first recurrent molecular variant of dermatofibrosarcoma protuberans involving PDGFD
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