Mouse anti-Human PDGF beta (PDGFB) Monoclonal Antibody | anti-PDGFB antibody

PDGF beta (PDGFB) Mouse Monoclonal Antibody [Clone PDGFB/3072]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215834	**Mouse**	**Human**	**Immunohistochemistry**

PRODUCT SYNONYMS

PDGF beta (PDGFB); Monoclonal Antibody; PDGF beta (PDGFB) Mouse Monoclonal Antibody [Clone PDGFB/3072]; Becaplermin; c sis; Oncogene SIS; PDGF Beta chain; PDGF2; Platelet derived growth factor 2; Platelet derived growth factor B chain; Platelet derived growth factor beta; Platelet derived growth factor beta polypeptide (oncogene SIS); Platelet derived growth factor beta polypeptide (simian sarcoma viral (v sis) oncogene homolog); anti-PDGFB antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse/IgG2c, kappa
Clone Number	PDGFB/3072
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0. 05% BSA & 0. 05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Concentration	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml (varies by lot)
Applicable Applications for anti-PDGFB antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment of human PDGFB protein (around aa 27-158) (exact sequence is proprietary)
Cellular Localization	Cytoplasm
Positive Control	Human colon, kidney or lymph node.
Hu-chromosome Location	22q13.1
Unigene	1976
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C Antibody without azide: store at -20 to -80 degree C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human colon stained with PDGF beta Mouse Monoclonal Antibody (PDGFB/3072). Inset: PBS instead of primary antibody, secondary antibody negative control.

ADDITIONAL INFORMATION

Related Product Information for anti-PDGFB antibody	PDGF is a mitogen for mesenchyme- and glia-derived cells. It consists of two disulfide-bonded polypeptide chains, A and B, and occurs as three isoforms; PDGF AA, AB and BB. The three isoforms bind, with different affinities, to two receptor types, alpha and beta, which are structurally related and endowed with protein-tyrosine kinase domains. Ligand binding induces activation of the receptor kinases by formation of receptor dimers; the A subunit of PDGF binds only to alpha receptors with high affinity, whereas the B subunit can bind to both alpha and beta receptors. Evidence suggests that PDGF may function as a neurotrophic factor. Receptors for PDGF-A are expressed in oligodendrocyte progenitor cells whereas receptors for PDGF-B are expressed on neurons. These facts suggest that the different isoforms of PDGF may regulate growth and differentiation of different cell types in the developing central nervous system through paracrine and autocrine routes.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505681
NCBI GeneID	5155
NCBI Accession #	NP_002599.1
NCBI GenBank Nucleotide #	NM_002608.2
UniProt Accession #	P01127; P78431; Q15354; Q6FHE7; Q9UF23; G3XAG8
Molecular Weight	27,283 Da
NCBI Official Full Name	platelet-derived growth factor subunit B isoform 1 preproprotein
NCBI Official Synonym Full Names	platelet-derived growth factor beta polypeptide
NCBI Official Symbol	PDGFB
NCBI Official Synonym Symbols	SIS; SSV; PDGF2; c-sis; PDGF-2
NCBI Protein Information	platelet-derived growth factor subunit B; becaplermin; PDGF, B chain; PDGF subunit B; proto-oncogene c-Sis; platelet-derived growth factor 2; platelet-derived growth factor B chain; platelet-derived growth factor, beta polypeptide (oncogene SIS); platelet
UniProt Protein Name	Platelet-derived growth factor subunit B
UniProt Gene Name	**PDGFB**
UniProt Synonym Gene Names	PDGF2; SIS; PDGF subunit B
UniProt Entry Name	PDGFB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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