

Mouse anti-Human PDGFRB Monoclonal Antibody | anti-PDGFRB antibody

PDGFRB (PDGFR, PDGFR1, Platelet-derived Growth Factor Receptor beta, Beta Platelet-derived Growth Factor Receptor, Beta-type Platelet-derived Growth Factor Receptor, CD140 Antigen-like Family Member B, Platelet-derived Growth Factor Receptor 1, CD140b) (F)

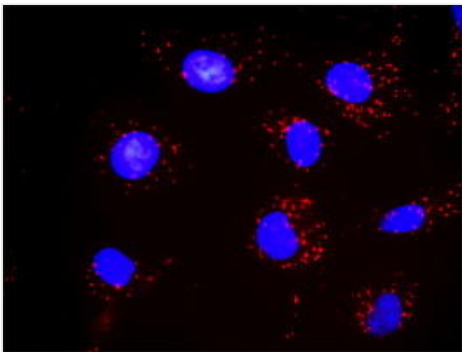
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA25194	Mouse	Human	ELISA, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

PDGFRB; Monoclonal Antibody; PDGFRB (PDGFR; PDGFR1; Platelet-derived Growth Factor Receptor beta; Beta Platelet-derived Growth Factor Receptor; Beta-type Platelet-derived Growth Factor Receptor; CD140 Antigen-like Family Member B; Platelet-derived Growth Factor Receptor 1; CD140b) (F; anti-PDGFRB antibody

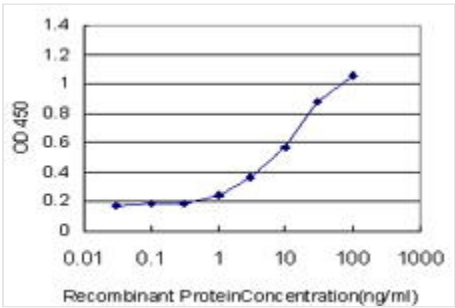
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4C12
Specificity	Recognizes human PDGFRB.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Applicable Applications for anti-PDGFRB antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot)
Application Notes	Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa33-133 from human PDGFRB (AAH32224) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LVVTPPGPELVNVSSTFVLTCSGSAPVWVERMSQEPPQEMAKAQDGTFSVLTLTNLTGLDTGEYFCTHNSRPLETDERKRLYIFVPDPTVGFLPNDAA
Conjugate	FITC
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



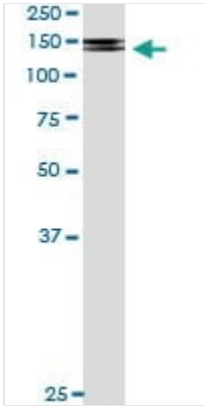
Application Data

Proximity Ligation Analysis of protein-protein interactions between STAT1 and PDGFRB
Mahlavu cells were stained with anti-STAT1 rabbit purified polyclonal (1:1200) and 131071 (1:50). Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



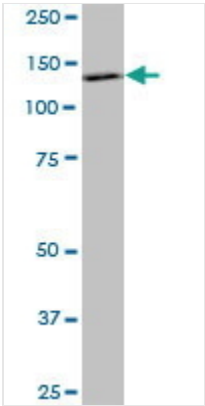
Application Data

Detection limit for recombinant GST tagged PDGFRB is ~1ng/ml as a capture antibody.



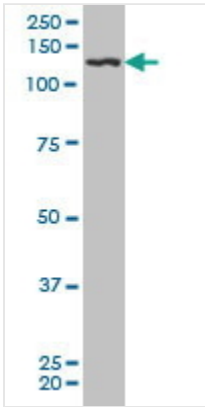
IP (Immunoprecipitation)

Immunoprecipitation of PDGFRB transfected lysate using 131071 and Protein A Magnetic Bead, and immunoblotted with PDGFRB rabbit polyclonal antibody.



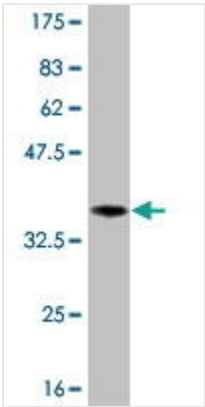
WB (Western Blot)

Western Blot analysis of PDGFRB expression in human uterus myoma using 131071.



WB (Western Blot)

Western Blot analysis of PDGFRB expression in human stomach using 131071.



WB (Western Blot)

Western Blot detection against Immunogen (36.74kD).

ADDITIONAL INFORMATION

Related Product Information for anti-PDGFRB antibody	CD140b is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. The identity of the growth factor bound to the receptor determines whether the functional receptor is a homodimer or heterodimer composed of both PDGFR-a and -B. CD140b contains two immunoglobulin-like domains and a tyrosine kinase domain with a predicted molecular weight ~124kD. CD140b is widely expressed on a variety of mesenchymal-derived cells and is preferentially expressed on some tumors such as medulloblastoma. Binding of B-chain containing PDGF molecules can stimulate cell proliferation. CD140b has been shown to interact with a number of kinases (including Raf-1, NCK1, FAK, Fyn, others) as well as adaptor molecules and signaling intermediates (Crk, Grb2, Grb4, RasGAP, SHP2, SHC1, others), and has also been shown to associate with integrin B3 and nexin sorting molecules. CD140b has been implicated in several disease states including atherogenesis and oncogenesis. The PDGFRB is heavily phosphorylated on numerous tyrosine residues through both autophosphorylation and ligand-dependent processes.
Product Categories/Family for anti-PDGFRB antibody	Antibodies ; Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	21594832
NCBI GeneID	5159
Molecular Weight	37,412 Da
NCBI Official Full Name	Homo sapiens platelet-derived growth factor receptor, beta polypeptide, mRNA
NCBI Official Synonym Full Names	platelet derived growth factor receptor beta
NCBI Official Symbol	PDGFRB
NCBI Official Synonym Symbols	IMF1; KOGS; IBGC4; JTK12; PDGFR; PENTT; CD140B; PDGFR1; PDGFR-1
NCBI Protein Information	platelet-derived growth factor receptor beta

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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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pdgfrb-antibody-clone-4c12-immunoprecipitation-western-blot-elisa/25194>