

PDGFRB active protein

PDGFRB Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257890

HOST
HEK293 Cells

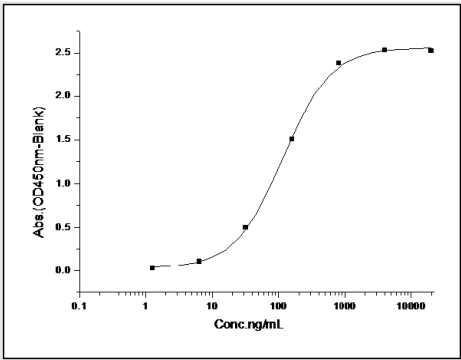
PRODUCT SYNONYMS

PDGFRB; PDGFRB Protein; Human; Recombinant (His Tag); Human CD140b/PDGFRB Protein (His Tag); CD140B Protein; IBGC4 Protein; IMF1 Protein; JTK12 Protein; KOGS Protein; PDGFR Protein; PDGFR-1 Protein; PDGFR1 Protein; PENTT Protein; platelet-derived growth factor receptor; beta polypeptide; PDGFRB active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Lys53 1
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 33
Tag	C-His
Protein Construction	A DNA sequence encoding the human PDGFRbeta (NP_002600.1) extracellular domain (Met 1-Lys 531) was expressed, with a C-terminal polyhistidine tag.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized PDGFRbeta-His at 10ug/ml (100uL/well) can bind Cynomolgus PDGFB. The EC50 of Cynomolgus PDGFB is 3-8ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized PDGFRbeta-His at 10 ug/ml (100 ul/well) can bind Cynomolgus PDGFB, The EC50 of Cynomolgus PDGFB is 3-8 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for PDGFRB active protein	Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD140b, also known as PDGFRB, is a member of the CD system. CD140b is a cell surface tyrosine kinase receptor essential for development interacting with the platelet-derived growth factors (PDGFs) which serves as mitogens for mesenchymal cells. CD140b can bind with platelet-derived growth factor (PDGF)-B, that are secreted by tumors and phosphorylation of PDGFR-beta was correlated with depth of cancer invasion at statistically significant level.
Product Categories/Family for PDGFRB active protein	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs)
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5. Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35. Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12. Suzuki S, et al. (2010) Clinicopathological significance of platelet-derived growth factor (PDGF)-B and vascular endothelial growth factor-A expression, PDGF receptor- phosphorylation, and microvessel density in gastric cancer. BMC cancer. 10: 659.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505683
NCBI GeneID	5159
NCBI Accession #	NP_002600.1
NCBI GenBank Nucleotide #	NM_002609.3
UniProt Accession #	P09619; Q8N5L4
Molecular Weight	123,968 Da
NCBI Official Full Name	platelet-derived growth factor receptor beta
NCBI Official Synonym Full Names	platelet-derived growth factor receptor, beta polypeptide
NCBI Official Symbol	PDGFRB
NCBI Official Synonym Symbols	IBGC4; JTK12; PDGFR; CD140B; PDGFR1; PDGFR-1

NCBI Protein Information	platelet-derived growth factor receptor beta; PDGFR-beta; PDGF-R-beta; CD140 antigen-like family member B; platelet-derived growth factor receptor 1; beta-type platelet-derived growth factor receptor
UniProt Protein Name	Platelet-derived growth factor receptor beta
UniProt Gene Name	PDGFRB
UniProt Synonym Gene Names	PDGFR; PDGFR1; PDGF-R-beta; PDGFR-beta; PDGFR-1
UniProt Entry Name	PGFRB_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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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/pdgfrb/257890>