

Recombinant Human PDGFRB/CD140b Protein (Active)

Catalog No. PKSH031556

Note: Centrifuge before opening to ensure complete recovery of vial contents.

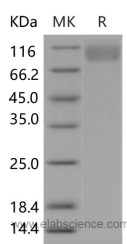
Description

Synonyms	Platelet-Derived Growth Factor Receptor Beta; PDGF-R-Beta; PDGFR-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; PDGFR-1; CD140b; PDGFRB; PDGFR; PDGFR1;CD140B;IBGC4;IMF1;JTK12;KOGS;PENTT
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Lys 531
Accession	NP_002600.1
Calculated Molecular Weight	57.1 kDa
Observed molecular weight	92-116 kDa
Bioactivity	Measured by its binding ability in a functional ELISA. Immobilized human PDGFRβ at 10 μg/ml (100 μl/well) can bind Cynomolgus PDGFB , The EC50 of Cynomolgus PDGFB is 3-7 ng/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of

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cells in the immune system can be identified through the surface CD molecules which 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- β was correlated with depth of cancer invasion at statistically significant level.