

Active Recombinant Human PDGFRB Protein, His-tagged, Biotinylated

Cat. No. PDGFRB-33H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human PDGFRB Protein is produced by HEK293 Cells expression system. This protein is fused with a His tag at the C-terminal. The expressed protein was biotinylated in vitro.

Species

Human

Source

HEK293

ProteinLength

Met1-Lys531

Description

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 which associating with the immune function of the cell. There are more than 32 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. CD14b, also known as PDGFRB, is a member of the CD system. CD14b 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. CD14b 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.

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Form	Lyophilized from sterile Sterile PBS. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1.Measured by its binding ability in a functional ELISA. 2.Immobilized biotinylated human PDGFRb-His at 10µg/mL (100µL/well) can bind Cynomolgus PDGFB-Fc, The EC50 of Cynomolgus PDGFB-Fc is 30-80ng/mL.
Molecular Mass	57.6 kDa
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Avoid repeated freeze-thaw cycles.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage.
Conjugation	Biotin

GENE INFORMATION

Gene Name	PDGFRB platelet-derived growth factor receptor, beta polypeptide [Homo sapiens]
Official Symbol	PDGFRB
Synonyms	PDGFRB; PDGFR; CD140b; JTK12; PDGFR1; PDGFR-beta; PDGF-R-beta; CD140B; PDGFR-1;

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Gene ID	5159
mRNA Refseq	NM_002609
Protein Refseq	NP_002600
MIM	173410
UniProt ID	P09619

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