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Datasheet for ABIN7318913 PDGFRB Protein (His tag)

Overview

Quantity:	50 µg
Target:	PDGFRB
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDGFRB protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PDGFRB/CD140b Protein (His Tag)
Sequence:	Leu33-Phe530
Characteristics:	Recombinant Human Platelet-Derived Growth Factor Receptor beta is produced by our Mammalian expression system and the target gene encoding Leu33-Phe530 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PDGFRB
Alternative Name:	PDGFRB/CD140b (PDGFRB Products)
Background:	Background: Platelet-Derived Growth Factor Receptor β (PDGFR- β) is a member of the protein kinase superfamily and CSF-1/PDGF receptor subfamily. The PDGF family consists of PDGF-A, -

Target Details

B, -C and -D, which form either homo- or heterodimers (PDGF-AA, -AB, -BB, -CC, -DD). The four PDGFs are inactive in their monomeric forms. The PDGFs bind to the protein tyrosine kinase receptors PDGF receptor- α and - β . These two receptor isoforms dimerize upon binding the PDGF dimer, leading to three possible receptor combinations, namely - $\alpha\alpha$, - $\beta\beta$ and - $\alpha\beta$. The extracellular region of the PDGF receptor- β consists of five immunoglobulin-like domains while the intracellular part is a tyrosine kinase domain. In addition to being a potent mitogen for cells of mesenchymal origin, PDGF has also been shown to be a potent chemoattractant for mesenchymal cells, mononuclear cells, and neutrophils and has been reported to be important in the modification of cellular matrix constituents.

Synonym: 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

Molecular Weight: 57.2 kDa

UniProt: [P09619](#)

Pathways: [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Inositol Metabolic Process](#), [Glycosaminoglycan Metabolic Process](#), [Smooth Muscle Cell Migration](#), [Platelet-derived growth Factor Receptor Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, 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.