Datasheet for ABIN5608454

PDGFB Protein (partial) (AVI tag,His tag)

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Overview

Quantity:	50 µg
Target:	PDGFB
Protein Characteristics:	partial
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PDGFB protein is labelled with AVI tag,His tag.
Application:	Western Blotting (WB), ELISA

Product Details

Sequence:	Ser 82 - Thr 190
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Endotoxin level is less than 1.0 EU per ug by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized Human PDGF-BB, His Tag at 5 µg/mL (100 µL/well) can bind Human PDGF R beta, Fc Tag with a linear range of 0.02-1.2 µg/mL (QC tested).

Target Details

Target:	PDGFB

Target Details

Alternative Name:	PDGF-B (PDGFB Products)
Background:	PDGFs are mitogenic during early developmental stages, driving the proliferation of undifferentiated mesenchyme and some progenitor populations. During later maturation stages, PDGF signalling has been implicated in tissue remodelling and cellular differentiation, and in inductive events involved in patterning and morphogenesis. In addition to driving mesenchymal proliferation, PDGFs have been shown to direct the migration, differentiation and function of a variety of specialised mesenchymal and migratory cell types, both during development and in the adult animal. Other growth factors in this family include vascular endothelial growth factors B and C (VEGF-B, VEGF-C)which are active in angiogenesis and endothelial cell growth, and placenta growth factor (PlGF) which is also active in angiogenesis. PDGF plays a role in embryonic development, cell proliferation, cell migration, and angiogenesis. PDGF is a required element in cellular division for fibroblast, a type of connective tissue cell. PDGF is also known to maintain proliferation of oligodendrocyte progenitor cells. Platelet-derived growth factor subunit B is also known as PDGFB, FLJ12858, PDGF2, SIS, SSV, c-sis, is a member of the platelet-derived growth factor family. PDGFB can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds. Mutations in this gene are associated with meningioma.
Molecular Weight:	15 kDa
Gene ID:	5155
UniProt:	P01127
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	This recombinant protein can be used for E, WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	0.085 % TFA in 30 % ACN

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized Protein should be stored at -20°C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20°C or -70°C.