SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-PDGFBB/FITC Conjugated antibody

Catalog Number: SL1316R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-PDGFBB/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human PDGF-B
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat
Background:	background: Platelet Derived Growth Factor (PDGF) is the major serum mitogen for cells of mesenchymal origin in humans. The biologically active protein is a dimer composed of two related polypeptides designated A and B, the dimers being connected by disulfide bonds. The PDGF protein has been implicated both directly as well as indirectly in several pathological states including neoplasia, arthritis, arteriosclerosis and bone marrow sclerosis. **Function:** Growth factor that plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. Potent mitogen for cells of mesenchymal origin. Required for normal proliferation and recruitment of pericytes and vascular smooth muscle cells in the central nervous system, skin, lung, heart and placenta. Required for normal blood vessel development, and for normal development of kidney glomeruli. Plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA. **Subunit:** Homodimer; antiparallel disulfide-linked dimer. Heterodimer with

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	PDGFA; antiparallel disulfide-linked dimer. The PDGFB homodimer interacts with PDGFRA and PDGFRB homodimers, and with heterodimers formed by PDGFRA and PDGFRB. The heterodimer composed of PDGFA and PDGFB interacts with PDGFRB homodimers, and with heterodimers formed by PDGFRA and PDGFRB. Interacts with XLKD1. **Subcellular Location:** Secreted. Note=Released by platelets upon wounding. **Tissue Specificity:** Expressed at high levels in the heart, brain (sustantia nigra), placenta and fetal kidney. Expressed at moderate levels in the brain (hippocampus), skeletal muscle, kidney and lung. DISEASE: Note=A chromosomal aberration involving PDGFB is found in dermatofibrosarcoma protuberans. Translocation t(17;22)(q22;q13) with PDGFB. **Similarity:** Belongs to the PDGF/VEGF growth factor family. **Database links:** **Entrez Gene:** 5155 Human **Entrez Gene:** 18591 Mouse **Entrez Gene:** 24628 Rat Omim: 190040 Human **SwissProt:** P01127 Human **SwissProt:** P31240 Mouse **SwissProt:** Q05028 Rat **Unigene:** 1976 Human **Unigene:** 144089 Mouse **Unigene:** 198230 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Growth factors and hormones（ Growth Factor and Hormones） Platelet-derived growth factor (PDGF) is a homodimer or heterodimer formed by two polypeptide chains, A and B, linked by disulfide bonds. It includes three forms: PDGF-AA, PDGF-BB, and PDGF-AB. The molecular weight is28～35KD。 PDGF-BBIt is also a member of the PDGF family and is a basic protein that promotes cell division and neuronal growth. Normal expression of PDGF-BB plays a role in the development and maturation of the nervous system.