



Rabbit Anti-PDGFBB/FITC Conjugated antibody

SL1316R-FITC

Product Name:	Anti-PDGFBB/FITC
Chinese Name:	FITC标记的血小板源性生长因子BB抗体
Alias:	PDGF BB; PDGF-BB; platelet derived growth factor-BB; Becaplermin; C sis; FLJ12858; Oncogene SIS; PDG B chain; PDGB; PDGF 2; PDGF B; PDGF B chain; PDGF2; PDGFB; PDGFB/COL1A1 fusion gene; Platelet derived growth factor 2; Platelet derived growth factor B chain; Platelet derived growth factor beta; Platelet derived growth factor beta polypeptide; Simian sarcoma viral (v sis) oncogene homolog; SIS; SSV; V sis platelet derived growth factor beta polypeptide.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12kDa
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDGF-B
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail:	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 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 (substantia 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)

血小板源性生长因子(PDGF), 是由A、B两条多肽链通过二硫键连接而成的同型或异型二聚体。包括三种形式:PDGF-AA、PDGF-BB、PDGF-AB.分子量为28~35KD。

PDGF-

BB也是PDGF家族成员, 是一种碱性蛋白, 可促进细胞分裂并促进神经元的生长, PDGF-BB的正常表达对于神经系统的发育和成熟起着一定的作用。

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