




Rabbit Anti-PDGF-B antibody

SL0185R

Product Name:	PDGF-B
Chinese Name:	血小板源性生长因子-B抗体
Alias:	PDGF beta; PDGF-B; Platelet-derived growth factor B-chain; PDGF AB + BB; Becaplermin; c sis; FLJ1285; Oncogene SIS; PDGF 1; PDGF 2; PDGF A; PDGF A chain; PDGF B chain; PDGF subunit A; PDGF subunit B; PDGF1; PDGF2; PDGFA; PDGFB; PDGFR1; Platelet derived growth factor 2; Platelet derived growth factor alpha; Platelet derived growth factor alpha chain; Platelet derived growth factor alpha polypeptide; Platelet derived growth factor B chain; Platelet derived growth factor beta; Platelet derived growth factor beta polypeptide; Platelet derived growth factor subunit A; Platelet derived growth factor subunit B; SIS; SSV; v sis platelet derived growth factor beta polypeptide.
文献引用 	<p>Specific References(4) SL0185R has been referenced in 4 publications.</p> <p>[IF=2.77]Lee, Si-Hyung, et al. "Therapeutic efficacy of autologous platelet-rich plasma and polydeoxyribonucleotide on female pattern hair loss." Wound Repair and Regeneration (2014).WB; PubMed:25524027</p> <p>[IF=3.33]Morita, Shoko, et al. "Vascular endothelial growth factor-dependent angiogenesis and dynamic vascular plasticity in the sensory circumventricular organs of adult mouse brain." Cell and Tissue Research (2015): 1-20.IHC-F;Mouse. PubMed:25573819</p> <p>[IF=3.26]Hurley, Marja M., et al. "Accelerated Fracture Healing in Transgenic Mice Overexpressing an Anabolic Isoform of Fibroblast Growth Factor 2." Journal of Cellular Biochemistry (2015).IHC-P;Mouse. PubMed:26252425</p>

	<p>[IF=5.62]He, Ting, et al. "Tumor cell-secreted angiogenin induces angiogenic activity of endothelial cells by suppressing miR-542-3p." Cancer Letters (2015).WB;</p> <p style="text-align: center;">PubMed:26272182</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Sheep,
Applications:	<p>WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=1µg/Test IF=1:100-500 (Paraffin sections need antigen repair)</p> <p>not yet tested in other applications.</p> <p>optimal dilutions/concentrations should be determined by the end user.</p>
Molecular weight:	27kDa
Cellular localization:	The nucleus cytoplasmic Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDGF-B:155-210/241
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.
PubMed:	PubMed
Product Detail:	<p>Platelet-derived growth factor is a potent mitogen for cells of mesenchymal origin. Binding of this growth factor to its affinity receptor elicits a variety of cellular responses. It is released by platelets upon wounding and plays an important role in stimulating adjacent cells to grow and thereby heal the wound. [SUBUNIT] Antiparallel disulfide-linked dimer of nonidentical (A and B) chains. Homodimers of A and B chains are implicated in transformation processes. A-A and B-B, as well as A-B, dimers can bind to the PDGF receptor. Belongs to the PDGF/VEGF growth factor family.</p> <p>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.</p> <p>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</p>

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.

SWISS:

P01127

Gene ID:

5155

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

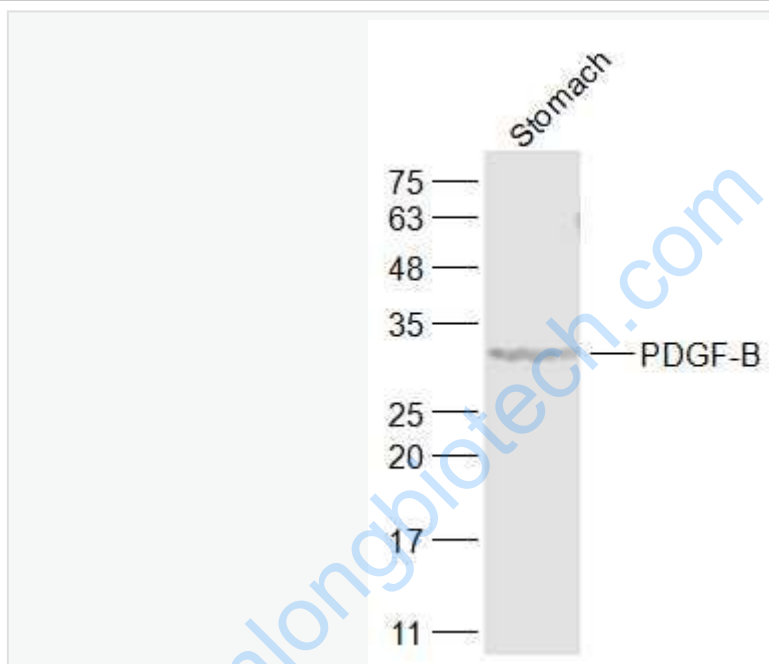
Important Note:

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)

PDGF (platelet-derived growth factor) 是一种碱性蛋白, 分为两个亚基(A、B链)通过二硫键结合而成的两条多肽链的异二聚体, 分子量为28-35kDa。为促进细胞分裂剂, 可使小鼠成纤维细胞及其他多种细胞增殖。最新研究发现了PDGF家族两种新的基因PDGF-C、PDGF-D。

Picture:



Sample:

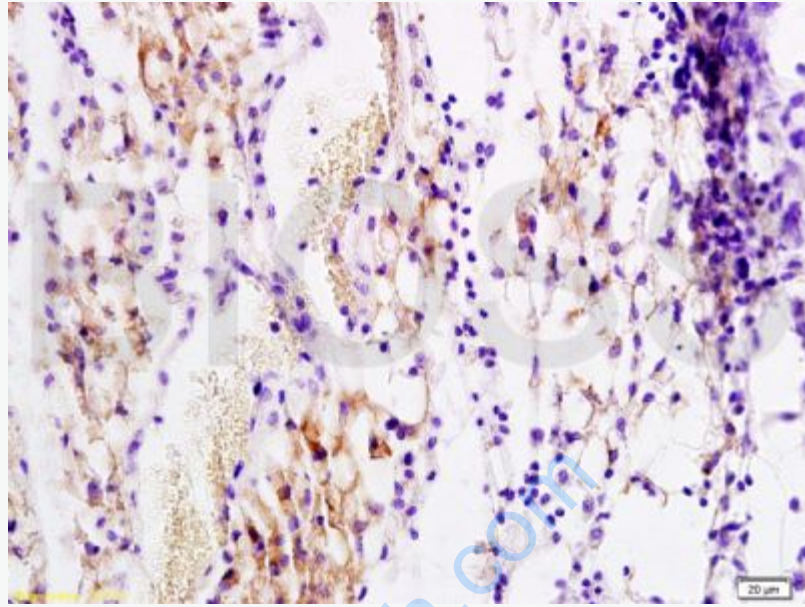
Stomach (Rat) Lysate at 40 ug

Primary: Anti-PDGF-B (SL0185R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 27 kD

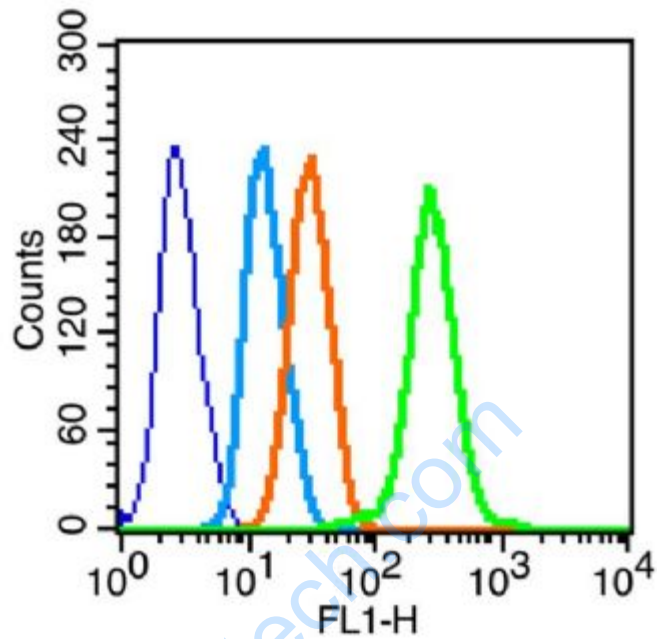
Observed band size: 32 kD



Tissue/cell: rat transplant lymphoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-PDGF-B Polyclonal Antibody, Unconjugated(SL0185R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (blue line):Hela(blue).

Primary Antibody (green line): Rabbit Anti-PDGF-B antibody (SL0185R)

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): F(ab')₂ fragment goat anti-rabbit IgG-FITC

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice.Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at

	room temperature. Acquisition of 20,000 events was performed.
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