Datasheet for ABIN3043599

anti-PDGFB antibody (AA 82-190)

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Overview

Quantity:	100 µg
Target:	PDGFB
Binding Specificity:	AA 82-190
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDGFB antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-PDGF beta/PDGFB Antibody Picoband®
Immunogen:	E.coli-derived human PDGF beta recombinant protein (Position: S82-T190). Human PDGF beta shares 89% amino acid (aa) sequence identity with both mouse and rat PDGF beta.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-PDGF beta/PDGFB Antibody Picoband® (ABIN3043599). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PDGFB
Alternative Name:	PDGFB (PDGFB Products)
Background:	Synonyms: Platelet-derived growth factor subunit B,PDGF subunit B,PDGF-2,Platelet-derived growth factor B chain,Platelet-derived growth factor beta polypeptide,Proto-oncogene c-Sis,Becaplermin,PDGFB,PDGF2, SIS, 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. . Background: Platelet-derived growth factor subunit B is a protein that in humans is encoded by the PDGFB gene. The protein encoded by this gene is a member of the platelet-derived growth factor family. This gene product 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. This gene is mapped to 22q13.1. Growth factor plays an essential role in the regulation of embryonic development, cell proliferation, cell migration, survival and chemotaxis. This gene plays an important role in wound healing. Signaling is modulated by the formation of heterodimers with PDGFA. Sequence Similarities: Belongs to the PDGF/VEGF growth factor family.
Molecular Weight:	13 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:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. Bolger, G. B., Stamberg, J., Kirsch, I. R., Hollis, G. F., Schwarz, D. F., Thomas, G. H. Chromosomal translocation t(14,22) and oncogene (c-sis) variant in a pedigree with familial meningioma. New Eng. J. Med. 312: 564-567, 1985. 2. Chen, C.-N., Li, Y.-S. J., Yeh, Y.-T., Lee, P.-L., Usami, S., Chien, S., Chiu, J.-J. Synergistic roles of platelet-derived growth factor-BB and interleukin-1-beta in phenotypic modulation of human aortic smooth muscle cells. Proc. Nat. Acad. Sci. 103: 2665-2670, 2006.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

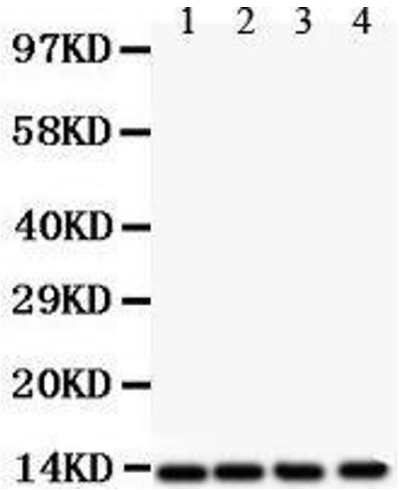
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:	Hong, Hong, Chen, Wang, Hong: "Investigation of the protective effect of erythropoietin on spinal cord injury in rats." in: **Experimental and therapeutic medicine**, Vol. 2, Issue 5, pp. 837-841, (2012) (PubMed). Zhao, Wang, Liu, Sun, Kazuhiro: "Protective effects of glutamine in a rat model of endotoxemia." in: **Molecular medicine reports**, Vol. 6, Issue 4, pp. 739-44, (2012) (PubMed).



Western Blotting

Image 1. Anti- PDGF beta Picoband antibody, Western blotting All lanes: Anti PDGF beta at 0.5ug/ml Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug Lane 2: Rat Brain Tissue Lysate at 50ug Lane 3: Mouse Cardiac Muscle Tissue Lysate at 50ug Lane 4: HELA Whole Cell Lysate at 40ug Predicted bind size: 27KD Observed bind size: 13KD