BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PDGF beta/PDGFB Antibody Picoband®

Catalog Number: A00348

About PDGFB

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.

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Overview

Product Name	Anti-PDGF beta/PDGFB Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PDGF beta/PDGFB Antibody Picoband® catalog # A00348. 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P01127

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PDGF beta, different from the related mouse and rat sequences by three amino acids.

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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Mouse, Rat, Human

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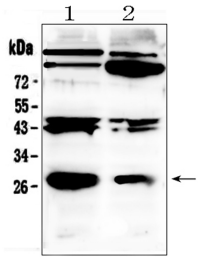
Anti-PDGF beta/PDGFB Antibody Picoband® (A00348) Images



Western blot analysis of PDGF beta using anti-PDGF beta antibody (A00348). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PDGF beta antigen affinity purified polyclonal antibody (Catalog # A00348) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PDGF beta at approximately 27KD. The expected band size for PDGF beta is at 27KD.

3 Publications Citing This Product

1. PubMed ID: 22842774, Zhao Yj, Wang H, Liu X, Sun M, Kazuhiro H. Mol Med Rep. 2012 Oct;6(4):739-44. Doi: 10.3892/Mmr.2012.1007. Epub 2012 Jul 26. Protective Effects Of Glutamine In A Rat Model Of Endotoxemia.

2. PubMed ID: 22977585, Hong Z, Hong H, Chen H, Wang Z, Hong D. Exp Ther Med. 2011 Sep;2(5):837-841. Epub 2011 Jun 14. Investigation Of The Protective Effect Of Erythropoietin On Spinal Cord Injury In Rats.

3. PubMed ID: 22977587, Investigation of the protective effect of erythropoietin on spinal cord injury in rats

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Anti-PDGF beta/PDGFB Antibody

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