

## Anti-PDGF Receptor beta/PDGFRB Antibody Picoband®

Catalog Number: A00096-1

### About PDGFRB

Beta-type platelet-derived growth factor receptor is a protein that in humans is encoded by the PDGFRB gene. The protein encoded by this gene is a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer (PDGFB or PDGFD) or a heterodimer (PDGFA and PDGFB). This gene is essential for normal development of the cardiovascular system and aids in rearrangement of the actin cytoskeleton. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the ETV6 gene, results in chronic myeloproliferative disorder with eosinophilia.

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### Overview

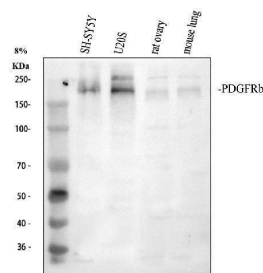
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-PDGF Receptor beta/PDGFRB Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description          | Boster Bio Anti-PDGF Receptor beta/PDGFRB Antibody Picoband® catalog # A00096-1. Tested in ELISA, Flow Cytometry, 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          | ELISA, Flow Cytometry, WB                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                                      |
| 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           | P09619                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Technical Details

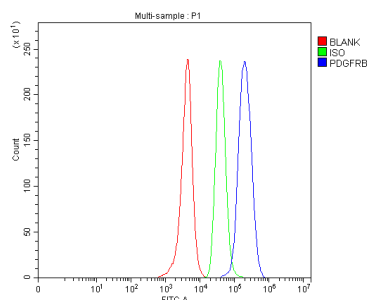
|           |                                                                         |
|-----------|-------------------------------------------------------------------------|
| Immunogen | E. coli-derived human PDGFRB recombinant protein (Position: E911-L992). |
|-----------|-------------------------------------------------------------------------|

|                               |                                                                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).                                                                                                       |
| 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.                                                                                                                                                                                                              |
| Suggested Dilutions           | <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat<br/>Flow Cytometry(Fixed), 1-3 ug/1x10<sup>6</sup> cells, Human<br/>ELISA, 0.1-0.5ug/ml</p> <p>Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.</p> |

## Anti-PDGFR Receptor beta/PDGFRB Antibody Picoband® (A00096-1) Images



Western blot analysis of PDGFRB using anti-PDGFRB antibody (A00096-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human SH-SY5Y whole cell lysates, Lane 2: human U2OS whole cell lysates, Lane 3: rat ovary tissue lysates, Lane 4: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-PDGFRB antigen affinity purified polyclonal antibody (Catalog # A00096-1) 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 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PDGFRB at approximately 190 kDa. The expected band size for PDGFRB is at 124 kDa.



Flow Cytometry analysis of SH-SY5Y cells using anti-PDGFRB antibody (A00096-1). Overlay histogram showing SH-SY5Y cells stained with A00096-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-PDGFRB Antibody (A00096-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

## 6 Publications Citing This Product

1. PubMed ID: PMID:28975979, GLI2 induces PDGFRB expression and modulates cancer stem cell properties of gastric cancer.
2. PubMed ID: 10.1080/1028602042000325609, Effects of isoliensinine on angiotensin II-induced proliferation of porcine coronary arterial smooth muscle cells
3. PubMed ID: 10.1111/j.1478-3231.2008.01759.x, RNA interference targeting the platelet-derived growth factor receptor beta subunit ameliorates experimental hepatic fibrosis in rats

Visit [bosterbio.com/anti-pdgfrb-picoband-trade-antibody-a00096-1-boster.html](http://bosterbio.com/anti-pdgfrb-picoband-trade-antibody-a00096-1-boster.html) to see all 6 publications.

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