

## Anti-PDGFR $\alpha$ Antibody Picoband<sup>®</sup>

Catalog Number: A00366

### About PDGFR $\alpha$

PDGFR $\alpha$  (Platelet-derived growth factor receptor,  $\alpha$ ), also called PDGFR2, encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. The PDGFR $\alpha$  gene is mapped on 4q12. The PDGFR $\alpha$ -FIP1L1 gene is a constitutively activated tyrosine kinase that transforms hematopoietic cells and is a therapeutic target of imatinib. The PDGFR $\alpha$  gene contains 23 exons spanning about 65 kb. Using the human PDGFR $\alpha$  promoter linked to a luciferase reporter, Joosten et al. showed that PAX1 acts as a transcriptional activator of the PDGFR $\alpha$  gene in differentiated human embryonal carcinoma cells. PDGFR $\alpha$  is responsible for mediating cellular contraction of multiple growth factors: TGF $\beta$ 1 and members of the PDGF family. Lei et al. noted that in the rabbit model of the disease, PDGFR $\alpha$  is dramatically more capable of promoting PVR than is the closely related PDGFR $\beta$ . PDGFR $\alpha$  is a critical receptor required for human CMV infection, and thus a target for novel antiviral therapies.

### Overview

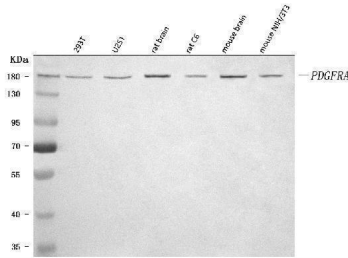
Product Name	Anti-PDGFR $\alpha$ Antibody Picoband <sup>®</sup>
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PDGFR $\alpha$ Antibody Picoband <sup>®</sup> catalog # A00366. Tested in ELISA, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates 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, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P16234

### Technical Details

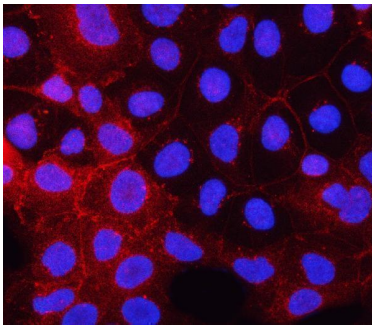
Immunogen	E.coli-derived human PDGFR $\alpha$ recombinant protein (Position: Q24-E906).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	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 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/ml, Human ELISA, 0.1-0.5 µg/ml, -

## Anti-PDGFR $\alpha$ Antibody Picoband $^{\text{®}}$ (A00366) Images



Western blot analysis of PDGFR $\alpha$  using anti-PDGFR $\alpha$  antibody (A00366). 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 30  $\mu$ g of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: rat C6 whole cell lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse NIH/3T3 whole cell 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-PDGFR $\alpha$  antigen affinity purified polyclonal antibody (Catalog # A00366) at 0.5  $\mu$ g/mL overnight at 4 $^{\circ}$ 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PDGFR $\alpha$  at approximately 180 kDa. The expected band size for PDGFR $\alpha$  is at 123,180 kDa.



IF analysis of PDGFR $\alpha$  using anti-PDGFR $\alpha$  antibody (A00366). PDGFR $\alpha$  was detected in an immunocytochemical section of CACO2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5  $\mu$ g/mL rabbit anti-PDGFR $\alpha$  Antibody (A00366) overnight at 4 $^{\circ}$ C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 $^{\circ}$ C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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