

## Anti-IL-1 beta/IL1B Antibody Picoband™

Catalog Number: A00101

### About IL1B

FGFR1, Fibroblast growth factor receptor 1, also known as basic fibroblast growth factor receptor 1, fms-related tyrosine kinase-2 / Pfeiffer syndrome, and CD331, is a receptor tyrosine kinase whose ligands are specific members of the fibroblast growth factor family. The FGFR1 gene is localized to 8p12-p11.2 by in situ hybridization. FGFR1 is essential for the normal formation of the organ of Corti and that phenotype severity observed in FGFR1 mutants is dependent on the dose of FGFR1. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, squamous cell lung cancer and autosomal dominant Kallmann syndrome 2.

### Overview

Product Name	Anti-IL-1 beta/IL1B Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IL-1 beta/IL1B Antibody Picoband™ catalog # A00101. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
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	P01584

### Technical Details

Immunogen	E. coli-derived human IL-1 beta recombinant protein (Position: A117-S269). Human IL-1 beta shares 78.3% and 77.6% amino acid (aa) sequence identity with mouse and rat IL-1 beta, respectively.
Predicted Reactive Species	Chicken
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat</p>

## Anti-IL-1 beta/IL1B Antibody Picoband™ (A00101) Images

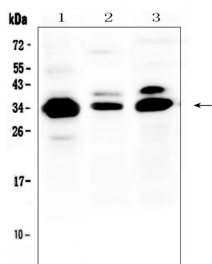


Figure 1. Western blot analysis of IL-1 beta using anti-IL-1 beta antibody (A00101).

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: human COLO-320 whole cell lysate,

Lane 2: rat spleen tissue lysate,

Lane 3: mouse NIH3T3 whole cell lysate.

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-IL-1 beta antigen affinity purified polyclonal antibody (Catalog # A00101) 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 IL-1 beta at approximately 35KD. The expected band size for IL-1 beta is at 31KD.

## 27 Publications Citing This Product

1. PubMed ID: 10.1007/s10571-009-9409-z, IL-17 Stimulates Migration of Carotid Artery Vascular Smooth Muscle Cells in an MMP-9 Dependent Manner via p38 MAPK and ERK1/2-Dependent NF-kappaB and AP-1 Activation
2. PubMed ID: 10.1007/s00429-017-1590-0, Adolescent cocaine exposure induces prolonged synaptic modifications in medial prefrontal cortex of adult rats
3. PubMed ID: 10.1016/j.biopha.2017.07.051, Protective effects of tannic acid on acute doxorubicin-induced cardiotoxicity: Involvement of suppression in oxidative stress, inflammation, and apoptosis

Visit [bosterbio.com/anti-il-1-beta-picoband-trade-antibody-a00101-boster.html](http://bosterbio.com/anti-il-1-beta-picoband-trade-antibody-a00101-boster.html) to see all 27 publications.

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