

Anti-IL-1 beta/IL1B Antibody Picoband™

Catalog Number: A00101

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 Na ₂ HPO ₄ , 0.05mg Na ₃ N.
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.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins.
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used Western blot, 0.1-0.5µg/ml, Human, Mouse, Rat

For protocols please visit <https://www.bosterbio.com/protocol-and-troubleshooting/>

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

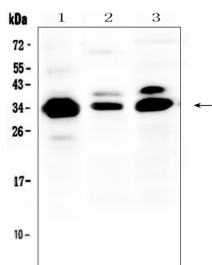


Figure 1. Western blot analysis of IL-1 beta using anti-IL-1 beta antibody (A00101).

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.

12 Publications Citing This Product

1. PubMed ID: 33130049, Ghoneim ME, Abdallah DM, Shebl AM, El-Abhar HS. The interrupted cross-talk of inflammatory and oxidative stress trajectories signifies the effect of artesunate against hepatic ischemia/reperfusion-induced inflammasomopathy. *Toxicol Appl Pharmacol.* 2020 Oct 29

2. PubMed ID: 22942709, Qin Q, Niu J, Wang Z, Xu W, Qiao Z, Gu Y. *Int J Mol Sci.* 2012;13(7):8379-87. Doi: 10.3390/ijms13078379. Epub 2012 Jul 5. Astragalus Membranaceus Inhibits Inflammation Via Phospho-P38 Mitogen-Activated Protein Kinase (Mapk) And Nuclear Factor (Nf)-...

3. PubMed ID: 25338658, Antenatal exposure of maternal secondhand smoke (SHS) increases fetal lung expression of RAGE and induces

RAGE-mediated pulmonary inflammation

Visit bosterbio.com/anti-il-1-beta-picoband-trade-antibody-a00101-boster.html to see all 12 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

