

## Anti-IL1 beta/IL1B Antibody Picoband®

Catalog Number: PA1351

### About IL1b

Interleukin-1 beta (IL-1beta) also known as catabolin, is a cytokine protein that in humans is encoded by the IL1B gene, which localizes to the long arm of chromosome at position 2q13-2q21 between two fragile sites. Interleukin 1 (IL-1) is a protein with several biological activities regulating host defense and immune responses.<sup>2</sup> The human IL-1 family plays an important role in the pathogenesis of many diseases and functions as a key mediator of the host response to various infectious, inflammatory, and immunologic challenges.

### Overview

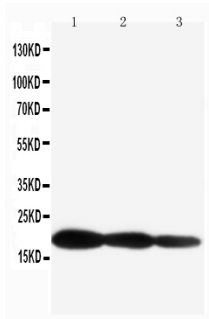
Product Name	Anti-IL1 beta/IL1B Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-IL1 beta/IL1B Antibody catalog # PA1351. Tested in WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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 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	P10749

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse IL-1 beta, different from the related rat sequence by four amino acids.
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

## Anti-IL1 beta/IL1B Antibody Picoband® (PA1351) Images



Anti-IL-1 beta antibody, PA1351, Western blotting  
Lane 1: Recombinant Mouse IL-1 beta Protein 10ng  
Lane 2: Recombinant Mouse IL-1 beta Protein 5ng  
Lane 3: Recombinant Mouse IL-1 beta Protein 2.5ng

## 11 Publications Citing This Product

1. PubMed ID: 10.1016/j.molimm.2017.12.018, Caspases are key regulators of inflammatory and innate immune responses mediated by TLR3 in vivo
2. 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
3. PubMed ID: 25338658, Antenatal exposure of maternal secondhand smoke (SHS) increases fetal lung expression of RAGE and induces RAGE-mediated pulmonary inflammation

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