

Anti-IL1 beta/IL1B Antibody Picoband®

Catalog Number: PA1533

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 2 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. 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

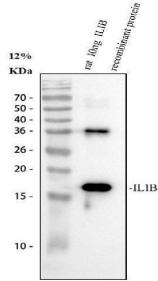
Product Name	Anti-IL1 beta/IL1B Antibody Picoband®
Reactive Species	Rat
Description	Boster Bio Anti-IL1 beta/IL1B Antibody catalog # PA1533. Tested in ELISA, WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high 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, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	Q63264

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat IL-1 beta.
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	ELISA, 0.5-1ug/ml, Rat, - Western blot, 0.1-0.5ug/ml, Rat

Anti-IL1 beta/IL1B Antibody Picoband® (PA1533) Images



Western blot analysis of IL1B using anti-IL1B antibody (PA1533). Electrophoresis was performed on a 13% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. Lane 1: recombinant rat IL1B protein 10 ng. 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-IL1B antigen affinity purified polyclonal antibody (PA1533) 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 (Catalog # BA1054) 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 IL1B at approximately 17 kDa.

8 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: 22553532, Effects of extract of *Buddleja officinalis* on partial inflammation of lacrimal gland in castrated rabbits with dry eye
3. PubMed ID: 27673564, miR-181a Induces Macrophage Polarized to M2 Phenotype and Promotes M2 Macrophage-mediated Tumor Cell Metastasis by Targeting KLF6 and C/EBP?

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