

Anti-IL1 beta/IL1B Antibody

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
Reactive Species	Rat
Description	Boster Bio Anti-IL1 beta/IL1B Antibody catalog # PA1533. Tested in ELISA, WB applications. This antibody reacts with Rat.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 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	Q63264

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat IL-1 beta.
Predicted Reactive Species	Hamster
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

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:

ELISA , 0.5-1ug/ml, Rat, -

Western blot, 0.1-0.5ug/ml, Rat

Anti-IL1 beta/IL1B Antibody (PA1533) Images



Anti-IL-1 beta antibody, PA1533, Western blotting
All lanes: Anti IL-1 beta (PA1533) at 0.5ug/ml
Lane 1: Rat Spleen Tissue Lysate at 50ug
Lane 2: Rat Thymus Tissue Lysate at 50ug
Predicted bind size: 31KD
Observed bind size: 31KD

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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