

Anti-IL1 beta/IL1B Antibody

Catalog Number: PB9606

About Il1b

Interleukin-1beta (IL-1beta) is a potent stimulator of bone resorption whose gene is mapped to 2q14, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1beta, a prominent microglia-derived cytokine, caused oligodendrocyte death in coculture with astrocytes and microglia, but not in pure culture of oligodendrocytes alone. It also can cause nuclear export of a specific NCOR corepressor complex, resulting in derepression of a specific subset of nuclear factor-kappa-B (NFkB)-regulated genes. Furthermore, Microenvironmental IL-1beta and, to a lesser extent, IL-1alpha are required for in vivo angiogenesis and invasiveness of different tumor cells. Additionally, the cooperation of IL-1beta and PDGFB induces contractile-to-synthetic phenotype modulation of human aortic smooth muscle cells in culture. Moreover, the association with disease may be explained by the biologic properties of IL-1beta, which is an important proinflammatory cytokine and a powerful inhibitor of gastric acid secretion.

Overview

Product Name	Anti-IL1 beta/IL1B Antibody
Reactive Species	Rat
Description	Boster Bio Anti-IL1 beta/IL1B Antibody catalog # PB9606. Tested in ELISA applications. This antibody reacts with Rat.
Application	ELISA
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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, different from the related human sequence by five amino acids, and from the related mouse sequence by one amino acid.
Recommended Detection Systems	Boster provides a series of assays reacted with primary antibodies.

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, 0.1-0.5ug/ml,

Anti-IL1 beta/IL1B Antibody (PB9606) Images



Boster Kit Box

2 Publications Citing This Product

1. PubMed ID: 27249953, In vivo anti-inflammatory activity of caffeoylquinic acid derivatives from *Solidago virgaurea* in rats
2. PubMed ID: 25892548, Exogenous β 1-calcitonin gene-related peptide attenuates lipopolysaccharide-induced acute lung injury in rats

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