Leader in Biomolecular Solutions for Life Science

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Rabbit anti-Human IL-1 beta mAb

Catalog No.: RMK0508

Basic Information

Catalog No.
RMK0508

Catagory
Elisa Antibody Kit

Application
ELISA,CLIA

Product Information

Ig Type
Rabbit IgG

Purification
Affinity purification

Endotoxin Level
N/A

Storage
Store at -20℃
Avoid repeated freeze-thaw cycles.

Formulation
Supplied as a 0.2 μm filtered solution in PBS with 0.05% Proclin 300, pH 7.3.

Contact

order@abclonal.com

support@abclonal.com

www.abclonal.com

Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. Similarly, IL-1B has been implicated in human osteoarthritis pathogenesis. Patients with severe Coronavirus Disease 2019 (COVID-19) present elevated levels of pro-inflammatory cytokines such as IL-1B in bronchial alveolar lavage fluid samples. The lung damage induced by the Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL-1B. This gene and eight other interleukin 1 ...

Immunogen Information

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 117-269 of human IL1β (NP_000567.1).

Cross-Reactivity

No cross-reactivity in ELISA with recombinant
Human IL-1 alpha, Human IL-2, Human IL-6, Human IL-7, Human IL-8, Human IL-13, Human IL-18, Human IL-33, Mouse IL-1 alpha, Mouse IL-1 beta, Mouse IL-4, Mouse IL-5, Mouse IL-13, Mouse IL-33, Rat IL-1 alpha, Rat IL-1 beta, Rat IL-4, Rat IL-6

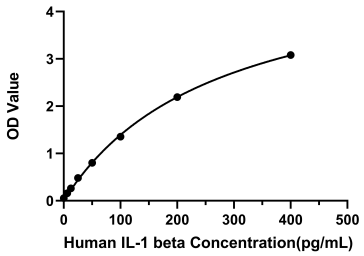
Assay Applications

Human IL-1 beta Sandwich Immunoassay

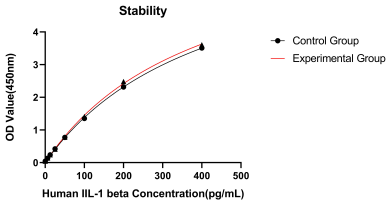
		Recommended Concentration	Sample
ELISA	Capture	1-4 μg/ml	Rabbit anti-Human IL-1 beta mAb (Cat. No. RMK0508)
	Detection	0.025-0.1 μg/ml	Rabbit anti-Human IL-1 beta mAb (Cat. No. RMK0034)
	Standard	6.25-400 pg/mL	Recombinant Human IL-1 beta Protein (Cat. No. RP00002)

CLIA	Capture	1-4 μg/ml	Rabbit anti-Human IL-1 beta mAb (Cat. No.RMK0508)
	Detection	0.5-2 μg/ml	Rabbit anti-Human IL-1 beta mAb (Cat. No. RMK0034)
	Standard	4.9-5000 pg/mL	Recombinant Human IL-1 beta Protein

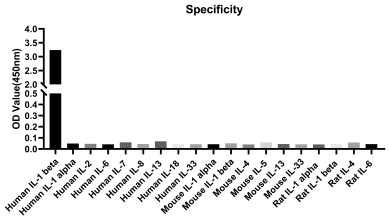
Validation Data



This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.



Placed at 37°C for 7 days, the stability of the standard curve all conform to CV <10%.



No significant cross-reactivity or interference was observed.