

# Rabbit anti-Human IL-1 $\beta$ mAb (CAP)

Catalog No.: RM17733 **3 Publications**

## Basic Information

**Catalog No.**  
RM17733

**Catagory**  
Elisa Antibody Kit

**Application**  
ELISA

## Product Information

**Ig Type**  
Rabbit IgG


**Purification**  
Affinity purification


**Endotoxin Level**


**Storage**  
Store at -20°C. Avoid freeze / thaw cycles. Preservative 0.05%ProClin 300.  
**Avoid repeated freeze-thaw cycles.**

**Formulation**  
Supplied as a 0.2um filtered solution in PBS with 0.1%Braveds MB-1,PH 7.4.

## Contact

 | order@abclonal.com

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## 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 IL-1 $\beta$  Protein

## Cross-Reactivity

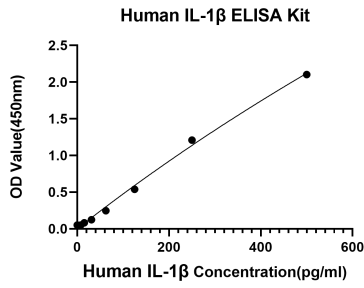
No cross-reactivity in ELISA assay with recombinant hIL-1A  $\square$  hIL-1RA  $\square$  hIL-18  $\square$  hIL-33  $\square$  mL-1B  $\square$  mL-33  $\square$  rIL-1A  $\square$  rIL-1B

## Assay Applications

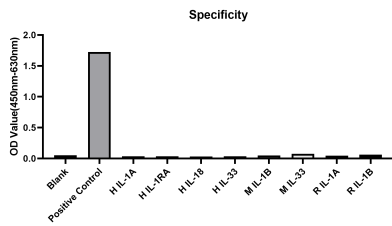
Human IL-1 $\beta$  Sanwich ELISA Immunoassay

	Recommended Concentration	Sample
ELISA Capture	0.5-2ug/mL	Rabbit anti-Human IL-1 $\beta$ (CAP)(Cat. No.RM17733)
ELISA Detection	0.05-0.2ug/mL	Rabbit anti-Human IL-1 $\beta$ (DET)(Cat. No.RM17734)
Standard	7.81-500pg/mL	Recombinant Human IL-1 $\beta$ Protein

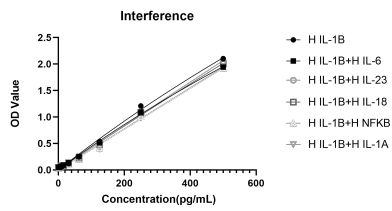
# Validation Data



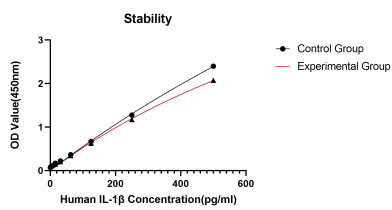
This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.



No significant cross-reactivity or interference was observed.



No significant cross-reactivity or interference was observed.



Placed at 37°C for 3 days, the stability of the standard curve all conform to CV <10%.