

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

**Catalog No.:** RM17734    **1 Publications**

## Basic Information

### Catalog No.

RM17734

### Category

Elisa Antibody Kit

### Application

ELISA, Multiplex, CLIA

## Product Information

### Ig Type

Rabbit IgG

### Purification

Affinity purification

### Endotoxin Level

### Storage

Store at -20°C.

**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
	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-1 $\beta$  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-1 $\beta$  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-1 $\beta$ . This gene and eight other interleukin 1 ...

## Immunogen Information

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 117-269 of human IL-1 $\beta$  (NP\_000567.1).

## Cross-Reactivity

No cross-reactivity in ELISA with recombinant hIL-1A  hIL-1RA  hIL-18  hIL-33  mIL-1B  mIL-33  rIL-1A  rIL-1B 

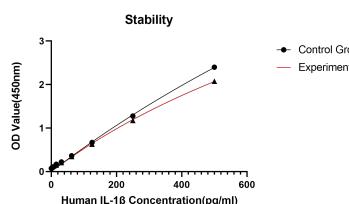
## Assay Applications

Human IL-1 $\beta$  Sandwich Immunoassay

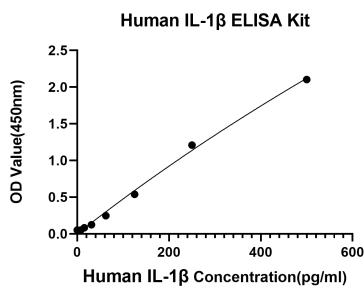
		Recommended Concentration	Sample
ELISA	Capture	0.5-2ug/mL	Rabbit anti-Human IL-1 $\beta$ mAb(Cat. No.RM17733)
	Detection	0.05-0.2ug/mL	Rabbit anti-Human IL-1 $\beta$ mAb(Cat. No.RM17734)
	Standard	7.81-500pg/mL	Recombinant Human IL-1 $\beta$ Protein

Multiplex	Capture	/	Rabbit anti-Human IL-1 $\beta$ mAb(Cat. No.RM17733)
	Detection	/	Rabbit anti-Human IL-1 $\beta$ mAb(Cat. No.RM17734)
	Standard	13.7-10000pg/mL	Recombinant Human IL-1 $\beta$ Protein
Multiplex	Capture	3-20ug/mL	Rabbit anti-Human IL-1 $\beta$ mAb(Cat. No.RM17965)
	Detection	0.017-2ug/mL	Rabbit anti-Human IL-1 $\beta$ mAb(Cat. No.RM17734)
	Standard	13.72-10000pg/mL	Recombinant Human IL-1 beta Protein(Cat. No. RP00002)
CLIA	Capture	1-4ug/mL	Rabbit anti-Human IL-1 $\beta$ (CAP)(Cat. No.RM17743)
	Detection	0.5-2ug/mL	Rabbit anti-Human IL-1 $\beta$ (DET)(Cat. No.RM17734)
	Standard	0.625-10ng/mL	Recombinant Human IL-1 $\beta$ Protein

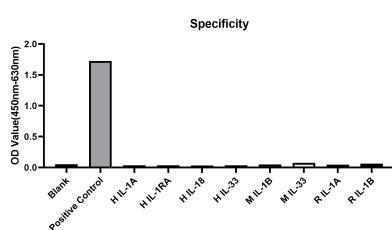
## Validation Data



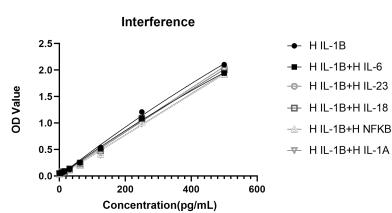
Placed at 37°C for 3 days, the stability of the standard curve all conform to CV <10%.



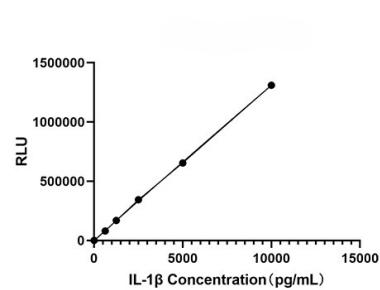
This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.



No significant cross-reactivity or interference was observed.



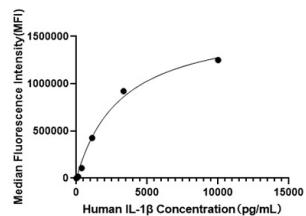
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