

# IL-1 beta Monoclonal Antibody (ILB1-H6), Biotin

Product Details	
Size	250 µg
Species	Human
Published Species	Human
Expression System	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	ILB1-H6
Conjugate	Biotin
Immunogen	Recombinant human IL-1 beta
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein G
Storage buffer	PBS with 4% BSA
Contains	proprietary Preservative
Storage Conditions	-20°C
RRID	AB_223565

Applications	Tested Dilution	Publications
ELISA (ELISA)	Assay Dependent	9 Publications

## Product Specific Information

M420BB targets IL-1 beta in ELISA applications and shows reactivity with Human samples.

The M420BB immunogen is recombinant human IL-1 beta.

M420BB detects IL-1 beta which has a predicted molecular weight of approximately 31 kDa.

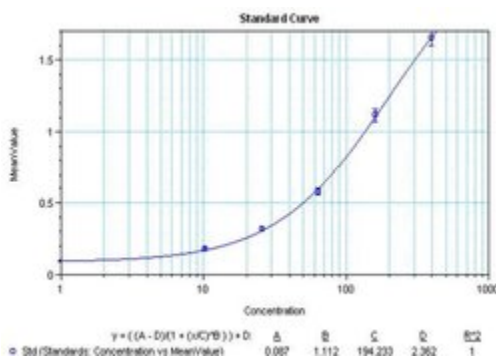
The M420BB IL1b antibody (biotinylated conjugate of clone ILB1-H6) has successfully been paired as the detection antibody in a sandwich ELISA with capture antibody M421B (clone ILB1-H67). Typical dilutions for sandwich ELISA include 1 µg/mL for coating and 0.125 - 0.25 µg/mL for detection.

Biotinylated antibody M420BB (clone ILB1-H6) and antibody M421B (clone ILB1-H67) have successfully been used in combination with recombinant IL1 beta protein SIL1B in ELISA applications.

## Product Images For IL-1 beta Monoclonal Antibody (ILB1-H6), Biotin

### IL-1 beta Antibody (M420BB) in ELISA

Sandwich ELISA analysis of Mouse anti-Human IL-1beta biotinylated monoclonal antibody (Product # M420BB) was performed using the Thermo Scientific ELISA kit EH2IL1B by loading 50 µL per well of Human IL-1beta recombinant protein (Product # SIL1B) in quadruplicate at 400, 160, 64, 25.6, 10.24 and 0 pg/mL across a 5 µg/mL Mouse anti-Human IL-1beta (Product # M421B) pre-coated plate and incubated for 3 hours at room temperature. The plate was washed then incubated with 50 µL per well of Mouse anti-Human IL-1beta biotinylated antibody (Product # M420BB) in quadruplicate at 0.07 µg/mL for 3 hours at room temperature. The plate was washed and incubated with 100 µL per well of Ultra Streptavidin-HRP (Product # N504) in all test wells at 1:3000 for 30 minutes at room temperature. The plate was washed then incubated with 100 µL per well of Ultra TMB substrate (Product # 34028) for 30 minutes at room temperature in the dark. The plate was then stopped with 0.16M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.



## 9 References

### ELISA (9)

Clinical and experimental allergy : journal of the British Society for Allergy and Clinical Immunology

#### Human eosinophils release IL-1β and increase expression of IL-17A in activated CD4+ T lymphocytes.

"M420BB was used in an ELISA assay to determine the effect of eosinophils on IL-17 production by lymphocytes."

Authors: Esnault S, Kelly EA, Nettenstrom LM, Cook EB, Seroogy CM, Jarjour NN

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2012

Neurobiology of aging

#### Th1 responses to beta-amyloid in young humans convert to regulatory IL-10 responses in Down syndrome and Alzheimer's disease.

"M420BB was used in ELISA to study the role of Th1 responses to beta amyloid in Down syndrome and Alzheimer disease"

Authors: Loewenbrueck KF, Tigno-Aranjuez JT, Boehm BO, Lehmann PV, Tary-Lehmann M

**Species**  
Human

**Dilution**  
2 ug/ml

**Year**  
2010

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