



Mouse Interleukin 1β ,IL- 1β ELISA Kit

Product Code	CSB-E08054m
Abbreviation	IL1B
Protein Biological Process 1	Immunity
Uniprot No.	P10749
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Quality Control	A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm. An incubator can provide stable incubation conditions up to 37°C±5°C. Centrifuge Vortex Squirt bottle, manifold dispenser, or automated microplate washer Absorbent paper for blotting the microtiter plate 50-300ul multi-channel micropipette Pipette tips Single-channel micropipette with different ranges 100ml and 500ml graduated cylinders Deionized or distilled water Timer Test tubes for dilution
Gene Names	II1b
Tag Info	quantitative
Protein Description	Sandwich
Component	A micro ELISA plate The 96-well plate has been pre-coated with anti-mouse IL-1 β This dismountable microplate can be divided into 12 x 8 strip plates. Two vials lyophilized standard Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve. Biotin-labeled IL-1 β antibody (100 x concentrate) 1 x 120 μ l Act as the detection antibody. HRP-avidin (100 x concentrate) 1 x 120 μ l Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic. Biotin-antibody Diluent 1 x 15 ml Dilute the high concentration Biotin-antibody

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to an appropriate working solution.

HRP-avidin Diluent 1 x 15 ml --- Dilute the high concentration HRP-avidin solution to an appropriate solution.

Sample Diluent 1 x 50 ml---Dilute the sample to an appropriate concentration. Wash Buffer (25 x concentrate) 1 x 20 ml --- Wash away unbound or free substances.

TMB Substrate 1 x 10 ml --- Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.

Stop Solution 1 x 10 ml --- Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation. An instruction manual

Description

This Mouse IL1B ELISA Kit was designed for the quantitative measurement of Mouse IL1B protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse IL-1β in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)	
1:1	Average %	88	
	Range %	82-95	
1:2	Average %	93	
	Range %	88-98	
1:4	Average %	96	
	Range %	94-102	
1:8	Average %	94	
	Range %	90-100	

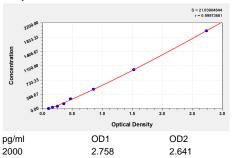
Recovery

The recovery of mouse IL-1β spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	94	87-99
EDTA plasma (n=4)	93	88-98

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed



Average 2.700

Corrected 2.586



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1000	1.438	1.587	1.513	1.399
500	0.833	0.869	0.851	0.737
250	0.474	0.477	0.476	0.362
125	0.350	0.375	0.363	0.249
62.5	0.267	0.253	0.260	0.146
31.25	0.165	0.186	0.176	0.062
0	0.119	0.108	0.114	?

Msds

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