

Mouse Interleukin 1 Beta (IL1b) ELISA Kit | IL1b elisa kit

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CATALOG #
AAA22943

REACTIVITY
Mouse

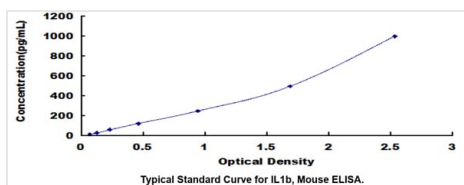
PRODUCT SYNONYMS

Interleukin 1 Beta (IL1b); Mouse Interleukin 1 Beta (IL1b) ELISA Kit; IL1-B; IL1-Beta; IL1F2; IL-1beta; Interleukin-1 Family Member 2; Catabolin; IL1b elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of IL1b. No significant cross-reactivity or interference between IL1b and analogues was observed.
Sequence Length	283
Assay Type	Quantitative Sandwich
Samples	Mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	< 6.2pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL1b were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IL1b were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL1b elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to IL1b. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to IL1b. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain IL1b, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of IL1b in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of IL1b in mouse serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Cardioprotective role of phyllanthin against myocardial ischemia-reperfusion injury by alleviating oxidative stress and inflammation with increased adenosine triphosphate levels in the mice model; Environ Toxicol; 2020 Aug 14.; PMID: 32798296; Cong Zhao; Department of Cardiology, The Affiliated Hospital of Qingdao University, Qingdao, China.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148226412
NCBI GeneID	373606
NCBI Accession #	NP_001079074.1
NCBI GenBank Nucleotide #	NM_001085605.1
NCBI Official Full Name	interleukin 1 beta S homeolog
NCBI Official Synonym Full Names	interleukin 1 beta S homeolog
NCBI Official Symbol	il1b.S
NCBI Official Synonym Symbols	IL-1; il1b; IL-1B; il1b-A
NCBI Protein Information	interleukin 1 beta S homeolog

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.