

Rat Interleukin 1 Beta ELISA Kit | IL-1beta elisa kit

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CATALOG #
AAA17656

REACTIVITY
Rat

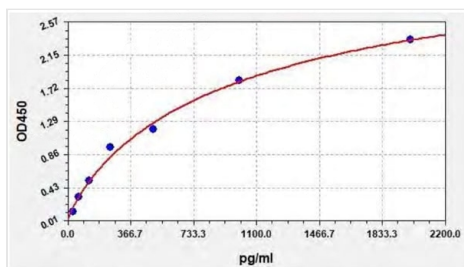
PRODUCT SYNONYMS

Interleukin 1 Beta; Rat Interleukin 1 Beta ELISA Kit; IL-1b/IL-1beta/IL1B/IL1-BETA/IL1F2/catabolin ; IL-1beta elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Specifically recognize IL-1beta, no obvious cross reaction with other analogues
Sequence Length	283
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-1beta elisa kit	Background: IL-1b(Interleukin-1beta) is a cytokine produced primarily by macrophages, monocytes, and other immune cells. It is a key mediator in inflammatory responses, promoting the occurrence and development of inflammation and participating in the immune and inflammatory response of the body. By binding to its receptor, IL-1b can activate various signaling pathways, inducing inflammatory reactions and activation and proliferation of immune cells. Additionally, IL-1b can induce the production of other inflammatory and cytokine factors by various cells, such as TNF-alpha and IL-6, further exacerbating the inflammatory response. Abnormal expression and signaling pathways of IL-1b are associated with many autoimmune diseases, infectious diseases, and hypersensitivity diseases. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti IL-1beta antibody was precoated onto the 96-well plate. The biotin conjugated anti IL-1beta antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with IL-1beta conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of IL-1beta in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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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
NCBI Official Synonym Full Names	interleukin 1 beta
NCBI Official Symbol	il1b
NCBI Official Synonym Symbols	IL-1; IL-1B; il1b-A
NCBI Protein Information	interleukin 1 beta

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/il-1beta-rat-elisa-kits/interleukin-1-beta/17656>