

Rat IL-1alpha ELISA Kit | IL-1alpha elisa kit

IL-1alpha Rat ELISA Kit

CATALOG # AAA59002	REACTIVITY Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

IL-1alpha; IL-1alpha Rat ELISA Kit; Rat IL-1alpha; IL-1alpha elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Rat serum, body fluids, tissue lysates or cell culture supernates
Assay Type	Quantitative Sandwich
Detection Range	4.7 pg/ml-300 pg/ml
Sensitivity	< 0.5 pg/ml
Applicable Applications for IL-1alpha elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a Rat IL-1A ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	4.7	9.4	18.8	37.5	75	150	300
Y	OD450	0.037	0.083	0.122	0.194	0.361	0.654	1.193	2.277

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-1alpha elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-1alpha polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-1alpha polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the IL-1alpha amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-1alpha can be calculated.

Background/Introduction: Interleukin-1 alpha (IL-1alpha) is a protein of the interleukin-1 family that in humans is encoded by the IL1A gene which spans 10.2 kb and has 7 exons. It is 1 of 2 structurally distinct forms of IL1, the other being IL1B, this two proteins are synthesized by a variety of cell types, including activated macrophages, keratinocytes, stimulated B lymphocytes, and fibroblasts, and are potent mediators of inflammation and immunity. IL1A may play a role in the genesis of inflammation by augmenting the transcription of proinflammatory genes, a mechanism not affected by extracellular inhibitors. IL1A has been administered to patients during receiving autologous bone marrow transplantation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27894330
NCBI GeneID	3552
NCBI Accession #	NP_000566.3
NCBI GenBank Nucleotide #	NM_000575.3
UniProt Accession #	P01583; Q53QF9; Q7RU02
Molecular Weight	30,607 Da
NCBI Official Full Name	interleukin-1 alpha proprotein
NCBI Official Synonym Full Names	interleukin 1, alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL1; IL-1A; IL1F1; IL1-ALPHA
NCBI Protein Information	interleukin-1 alpha; IL-1 alpha; hematopoietin-1; preinterleukin 1 alpha; pro-interleukin-1-alpha
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL1F1; IL-1 alpha
UniProt Entry Name	IL1A_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/il-1alpha/59002>