

Rat Interleukin 1 Alpha (IL1a) ELISA Kit | IL1a elisa kit

Rat Interleukin 1 Alpha (IL1a) High Sensitive ELISA Kit

CATALOG # AAA188470	REACTIVITY Rat	APPLICATIONS ELISA
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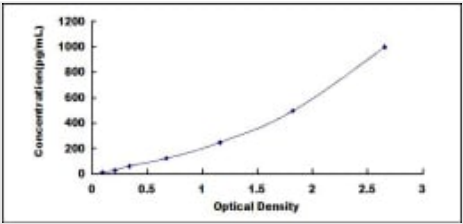
PRODUCT SYNONYMS

Interleukin 1 Alpha (IL1a); Rat Interleukin 1 Alpha (IL1a) High Sensitive ELISA Kit; Interleukin 1 Alpha; IL1-A; IL-1alpha; IL1F1; Preinterleukin 1 Alpha; Hematopoietin-1; Pro-Interleukin-1-Alpha; Interleukin-1 Family Member 1; IL1a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of High Sensitive Interleukin 1 Alpha (IL1a). No significant cross-reactivity or interference between High Sensitive Interleukin 1 Alpha (IL1a) and analogues was observed.
Sequence Length	270
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Detection Range	15.62-1000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 3.8pg/mL
Applicable Applications for IL1a elisa kit	ELISA
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level High Sensitive Interleukin 1 Alpha (IL1a) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level High Sensitive Interleukin 1 Alpha (IL1a) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to High Sensitive Interleukin 1 Alpha (IL1a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to High Sensitive Interleukin 1 Alpha (IL1a). 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 High Sensitive Interleukin 1 Alpha (IL1a), 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 High Sensitive Interleukin 1 Alpha (IL1a) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8393593
NCBI GeneID	24493
NCBI Accession #	NP_058715.1
NCBI GenBank Nucleotide #	NP_058715.1
UniProt Accession #	P16598
NCBI Official Full Name	interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1 alpha
NCBI Official Symbol	IL1a
NCBI Official Synonym Symbols	IL-1F1; IL-1 alpha
NCBI Protein Information	interleukin-1 alpha
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1a
UniProt Synonym Gene Names	IL-1 alpha
UniProt Entry Name	IL1A_RAT

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.