

Rat Interleukin 10 (IL10) ELISA Kit | IL10 elisa kit

Rat Interleukin 10 (IL10) High Sensitive ELISA Kit

CATALOG # AAA23099	REACTIVITY Rat	APPLICATIONS ELISA
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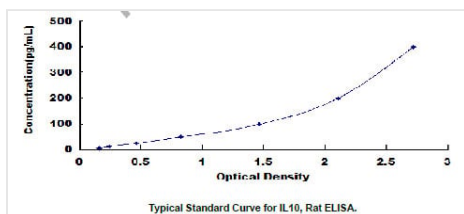
PRODUCT SYNONYMS

Interleukin 10 (IL10); Rat Interleukin 10 (IL10) High Sensitive ELISA Kit; Interleukin 10; CSIF; IL10A; TGIF; Cytokine Synthesis Inhibitory Factor; IL10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of IL10. No significant cross-reactivity or interference between IL10 and analogues was observed.
Sequence Length	178
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	6.25-400pg/mL
Sensitivity	< 2.81pg/mL
Applicable Applications for IL10 elisa kit	ELISA
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL10 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 IL10 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 IL10 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of IL10 in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to IL10. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to IL10. 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 IL10, 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 IL10 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
References	Ameliorative Effect of Curcumin Nanoparticles against Monosodium Iodoacetate-Induced Knee Osteoarthritis in Rats; Mediators Inflamm; 2022 Oct 14;2022:8353472.; PMID: 36578323; Hadeer M Hamdalla; Cell Biology, Histology and Genetics Division, Department of Zoology, Faculty of Science, Beni-Suef University, P.O. Box 62521, Beni-Suef, Egypt.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148747382
NCBI GeneID	25325
NCBI Accession #	NP_036986.2
NCBI GenBank Nucleotide #	NP_036986.2
UniProt Accession #	P29456
NCBI Official Full Name	interleukin-10
NCBI Official Synonym Full Names	interleukin 10
NCBI Official Symbol	IL10
NCBI Official Synonym Symbols	IL10X
NCBI Protein Information	interleukin-10
UniProt Protein Name	Interleukin-10
UniProt Gene Name	IL10
UniProt Synonym Gene Names	IL-10; IL-10; CSIF
UniProt Entry Name	IL10_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.