

Rat IL-4 ELISA Kit | IL-4 elisa kit

IL-4 Rat ELISA Kit

CATALOG # AAA13519	REACTIVITY Rat	APPLICATIONS ELISA
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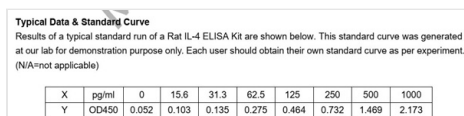
PRODUCT SYNONYMS

IL-4; IL-4 Rat ELISA Kit; Rat IL-4; IL-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Assay Type	Sandwich
Samples	Rat serum, body fluids, tissue lysates or cell culture supernatants
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	< 1pg/ml
Applicable Applications for IL-4 elisa kit	ELISA
Application Notes	For quantitative detection of IL-4 in rat serum, body fluids, tissue lysates or cell culture supernatants.
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-4 elisa kit

Background: Interleukin-4(IL-4) is an 18-kD glycoprotein, it has 4 exons and is approximately 10 kb. It has a compact, globular fold, stabilised by 3 disulphide bonds. One half of the structure is dominated by a 4 alpha-helix bundle with a left-handed twist. It has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation B cells into Plasma Cells, and it is a key regulator in humoral and adaptive immunity. IL-4 also has been shown to drive mitogenesis, dedifferentiation, and metastasis in rhabdomyosarcoma.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-4 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-4 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-4 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-4 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55742622
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NCBI GeneID	397225
NCBI Accession #	NP_999288.1
NCBI GenBank Nucleotide #	NM_214123.1
UniProt Accession #	Q04745 ; Q29054 ; Q8MKE6
Molecular Weight	15,023 Da
NCBI Official Full Name	interleukin-4
NCBI Official Symbol	IL4
NCBI Protein Information	interleukin-4; IL-4; BSF-1; B-cell stimulatory factor 1; lymphocyte stimulatory factor 1
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_PIG

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://stage.aaabiotech.com/rat-elisa-kits/il-4/13519>