

Mouse Interleukin 4 ELISA Kit | IL-4 elisa kit

Mouse Interleukin 4 ELISA Kit

CATALOG #
AAA102327

REACTIVITY
Mouse

PRODUCT SYNONYMS

Interleukin 4; Mouse Interleukin 4 ELISA Kit; IL-4 (Interleukin 4)/IL4/BCGF-1/BCGF1/BSF-1/BSF1; IL-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of IL-4. No significant cross-reactivity or interference between IL-4 and analogues was observed.
Sequence Length	153
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000pg/ml
Sensitivity	9.375pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level IL-4 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level IL-4 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
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

Typical Data & Standard Curve

Results of a typical standard run of a IL-4 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	15.625	31.25	62.5	125	250	500	1000
Y	OD450	0.031	0.048	0.074	0.109	0.192	0.392	0.939	2.097

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IL-4 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IL-4 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin 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 #	4504669
NCBI GeneID	3565
NCBI Accession #	NP_000580.1
NCBI GenBank Nucleotide #	NM_000589.3
Molecular Weight	15,797 Da
NCBI Official Full Name	interleukin-4 isoform 1
NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	BSF1; IL-4; BCGF1; BSF-1; BCGF-1
NCBI Protein Information	interleukin-4
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_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://stage.aaabiotech.com/il-4-mouse-elisa-kits/interleukin-4/102327>