

Interleukin-4 ELISA Kit | IL-4 elisa kit

Interleukin-4 (IL-4)

CATALOG #
AAA77847

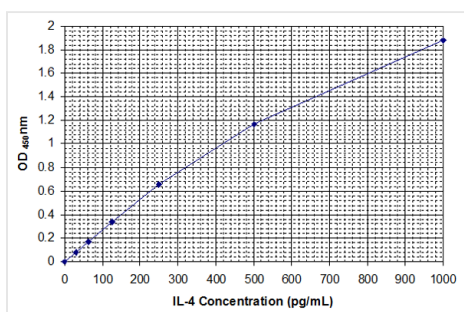
PRODUCT SYNONYMS

Interleukin-4; Interleukin-4 (IL-4); IL-4 elisa kit

PRODUCT SPECIFICATIONS

Specificity	This sandwich ELISA recognizes both natural and recombinant human IL-4. This kit exhibits no detectable cross-reactivity with human; SAA, EGF, IL-8, IL-16, MCAF, MCP-3, TNF-gamma, M-CSF, GM-CSF, TGF-beta1, RANTES, FGF, MIP-1alpha, CRP, EPO, IFN-gamma.
Sequence Length	137
Samples	Serum, plasma, Cell Culture Supernatant, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable dose of IL-4 was determined by adding two standard deviations to the mean optical density value of 20 zero standard replicates and calculating the corresponding concentration from the standard curve. The minimum detectable dose of human IL-4 using a standard curve generated with Calibrator Diluent I is 6.6 pg/mL and using Calibrator Diluent II is 4.3 pg/mL.
Intra-assay Precision	To determine within-run precision, three different samples of known concentration were assayed by replicates of 20 in 1 assay.
Inter-assay Precision	To determine between-run precision, three different samples of known concentration were assayed by replicates on 20 different assays.
Intended Uses	This Human Interleukin 4 ELISA Kit is to be used for the in vitro quantitative determination of human interleukin 4 (IL-4) concentrations in serum, plasma, cell culture supernatant, and other biological fluids. This kit is intended for LABORATORY RESEARCH USE ONLY and is not for use in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-4 elisa kit	Principle of the assay: This IL-4 enzyme linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a polyclonal antibody specific to IL-4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated monoclonal antibody preparation specific for IL-4 and incubated. IL-4 if present, will bind and become immobilized by the antibody pre-coated on the wells and then be "sandwiched" by biotin conjugate. The microtiter plate wells are thoroughly washed to remove unbound IL-4 and other components of the sample. In order to quantitatively determine the amount of IL-4 present in the sample, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Avidin is a tetramer containing four identical subunits that each have a high affinity-binding site for biotin. The wells are thoroughly washed to remove all unbound HRP-conjugated Avidin and a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate are allowed to react over a short incubation period. Only those wells that contain IL-4, biotin-conjugated antibody, and enzyme-conjugated Avidin will exhibit a change in colour. The enzymesubstrate reaction is terminated by the addition of a sulphuric acid solution and the colour change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm.
Product Categories/Family for IL-4 elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	27477092
NCBI GeneID	3565
NCBI Accession #	NP_758858.1
NCBI GenBank Nucleotide #	NM_172348.2
Molecular Weight	15,797 Da
NCBI Official Full Name	interleukin-4 isoform 2
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; B cell growth factor 1; B_cell stimulatory factor 1; binetrakin; interleukin 4 variant 2; lymphocyte stimulatory factor 1; pitrakinra
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
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-elisa-kits/interleukin-4/77847>