

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

Human IL-4 ELISA KIT

CATALOG #
AAA309856

REACTIVITY
Human

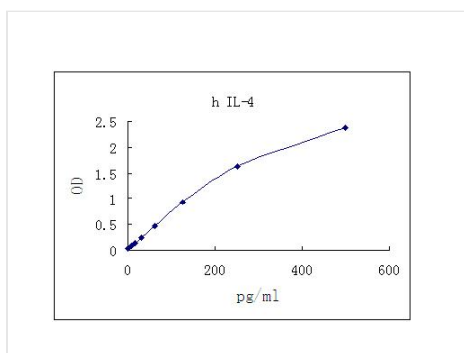
PRODUCT SYNONYMS

IL-4; Human IL-4 ELISA KIT; Human IL-4; IL-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL-4 Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	7.8-500pg/mL
Sensitivity	2pg/mL
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for IL-4 ELISA. IL-4 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for IL-4 elisa kit

Interleukin 4 (IL-4) is a pleiotropic cytokine produced primarily by activated T lymphocytes, mast cells and basophils (1-3). The sequence of human IL-4 cDNA predicts a 153 amino acid (aa) residue precursor protein containing a 24 aa residue signal peptide that is cleaved to form the mature protein (4). At the amino acid sequence level, mature human IL-4 is approximately 50% identical to mouse IL-4 and there is no species cross-reactivity between the two proteins (1, 2). Human IL-4 also shares approximately 30% amino acid sequence identity to human IL-13 and the two cytokines exhibit overlapping biological activities (5, 6). The gene for IL-4 has been mapped to human chromosome 5q, in close proximity to the genes for IL-3, IL-5, IL-13 and GM-CSF (1, 2). IL-4 has multiple immune response-modulating functions on a variety of cell types. It is an important regulator of isotype switching, inducing IgE production in B lymphocytes. It is an important modulator of the differentiation of precursor T helper cells to the TH2 subset that mediates humoral immunity and modulates antibody production. In addition, IL-4 has also been shown to have anti-tumor activity both in vivo and in vitro (1-3). The biological effects of IL-4 are mediated by specific cell surface receptor complexes. One type of functional IL-4 receptor complex consists of the IL-4-binding subunit (IL-4 R) and a second chain, designated the common c chain because it has also been identified as a component of the receptor complexes for IL-2, IL-7, IL-9 and IL-15 (7-9). A second type of functional IL-4 receptor complex, consisting of the IL-4 R and the more recently cloned IL-13 R, has also been proposed (10, 11). Although IL-4 R does not bind IL-13 directly, it has been shown to complex with the low-affinity IL-13 R to form the functional high-affinity receptor complex for IL-13 (11, 12). In addition to the membrane-bound form of IL-4 R, a naturally occurring soluble form of IL-4 R has been identified in human and mouse biological fluids and in mouse cell culture supernates (13-15). Soluble IL-4 R has been shown to bind IL-4 with high affinity in solution.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21264449
NCBI GeneID	443327
UniProt Accession #	P30368; Q95MZ6
Molecular Weight	15,136 Da
NCBI Official Full Name	Interleukin-4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	IL-4
NCBI Protein Information	interleukin-4
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; IL-4; BSF-1

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/human-elisa-kits/il-4/309856>