

Human IL-4 ELISA Kit | IL4 elisa kit

Human IL-4 Quick ELISA Kit

CATALOG #
AAA125853

REACTIVITY
Human

PRODUCT SYNONYMS

IL-4; Human IL-4 Quick ELISA Kit; IL-4|B cell growth factor 1; BCDF; B-cell stimulatory factor 1; BCGF1; BCGF-1; binetrakin; BSF1; BSF-1; IL4; IL-4B_cell stimulatory factor 1; IL4E12; interleukin 4; interleukin-4; Lymphocyte stimulatory factor 1; MGC79402; pitrakinra; IL4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL4
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	15.6pg/ml-1,000pg/ml
Sensitivity	<1.5pg/ml
Capture/Detection Antibodies	Capture antibody- monoclonal antibody from mouse Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 15.6 31.2 62.5 125 250 500 1000 O.D. 0.040 0.148 0.238 0.416 0.755 1.314 2.094 2.570
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 42 224 543 Standard deviation 2.26 12.09 25.52 CV(%) 5.4% 5.4% 4.7%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 33 199 537 Standard deviation 2.14 10.94 29.53 CV(%) 6.5% 6.6% 5.5%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 42 35 40 33 37 1.59 4.3% Sample 2: 224 195 213 207 209 8.77 4.2% Sample 3: 543 445 515 487 497 27.33 5.5% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: E Coli; Immunogen sequence: H25-S153
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human IL-4 with <1. 5pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human IL4 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human IL4 with a 96-well strip plate that is pre-coated with mouse monoclonal antibody specific for IL4. The detection antibody is a HRP linked goat polyclonal antibody specific for IL4. The kit contains recombinant Human IL4 with immunogen: Expression system for standard: E Coli; Immunogen sequence: H25-S153. The kit is analytically validated with ready to use reagents. To measure Human IL4, add standards and samples to the wells, then add HRP linked detection antibody. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human IL4 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human IL4 in the sample.
Assay Procedure Step 1	1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for IL4 elisa kit	Interleukin-4(IL-4), also knowns as a B-cell stimulatory factor1(BSF1), is an immunomodulatory cytokine, which can inhibit the growth of tumour cells. The human cDNA contains a single open reading frame encoding a protein of 153 amino acids, including a putative signal peptide. IL-4 may act as an autocrine growth factor in pancreatic cancer cells and also give rise to the possibility that cancer-derived IL-4 may suppress cancer-directed immunosurveillance in vivo in addition to its growth-promoting effects, thereby facilitating pancreatic tumor growth and metastasis. The mouse and human genes and their protein products show structural and functional similarities. The human IL-4 gene, which occurs as a single copy in the haploid genome, is mapped on chromosome 5. The standard product used in this kit is recombinant human IL-4, consisting of 130 amino acids with the molecular mass of 14KDa.
Product Categories/Family for IL4 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504669
NCBI GeneID	3565
NCBI Accession #	NP_000580.1
NCBI GenBank Nucleotide #	NM_000589.3
UniProt Accession #	P05112; Q14630
Molecular Weight	17,492 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; binetrakin; pitrakinra; B cell growth factor 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_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/il4-human-elisa-kits/il-4/125853>