

Human IL4/IL-4/Interleukin-4 ELISA Kit | IL4/IL-4 elisa kit

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CATALOG #
AAA258437

REACTIVITY
Human

PRODUCT SYNONYMS

IL4/IL-4/Interleukin-4; Human IL4/IL-4/Interleukin-4 ELISA Kit; IL-4 ELISA Kit; Human; interleukin 4; BCGF-1 ELISA Kit; BCGF1 ELISA Kit; BSF-1 ELISA Kit; BSF1 ELISA Kit; Interleukin-4 ELISA Kit; IL4/IL-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human IL4/IL-4/Interleukin-4 concentration in cell culture supernates.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Cell supernatant
Detection Range	10.94-700pg/mL
Sensitivity	2.54pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human IL4 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

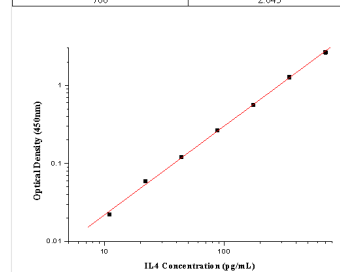
IMAGES

Recombinant human			
GM-CSF	IL6RB	IL2Ra	IL3
IL3RA	IL4R	IL5	IL5Ra
IL6R	IL7	IL-13	
Recombinant mouse			
CSF2	IL3	IL4	IL4RA
IL5	IL6	IL7	IL13
IL13RA1			
Recombinant canine			
IL4			

Application Data

This assay recognizes both recombinant and natural Human IL4. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
10.94	0.022
21.88	0.059
43.75	0.120
87.5	0.264
175	0.564
350	1.272
700	2.645



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for IL4/IL-4 elisa kit	This IL-4 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human IL-4 protein in Cell supernatant. It contains recombinant Human IL-4, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Interleukin-4, also known as IL4, is a secreted protein that belongs to the IL-4/IL-13 family. Interleukin-4/IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. It enhances both secretion and cell surface expression of IgE and IgG1. Interleukin-4/IL4 also regulates the expression of the low-affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. Interleukin-4 is essential for the switching of B cells to IgE antibody production and the maturation of T helper (Th) cells toward the Th2 phenotype. It participates in at least several B-cell activation processes as well as other cell types. However, studies show that double mutant (Q116D, Y119D) of the murine IL4 protein (QY), both glutamine 116 and tyrosine 119, which binds to the IL4 receptor alpha, completely inhibits in a dose-dependent manner the IL4-induced proliferation of lipopolysaccharide-stimulated murine splenic B-cells, of the murine T cell line CTLL-2, and the murine pre-B-cell line BA/F3. QY also inhibited the IL4-stimulated up-regulation of CD23 expression by lipopolysaccharide-stimulated murine splenic B-cells and abolished tyrosine phosphorylation of the transcription factor Stat6 and the tyrosine kinase Jak3 in IL4-stimulated BA/F3 cells.
References	Grunewald SM. et al., 1998, J Immunol. 160 (8): 4004-9. Susanne M. et al, 1997, THE JOURNAL OF BIOLOGICAL CHEMISTRY. 272 (3): 1480-3. Nishikubo K. et al., 2003, Gene Ther. 10 (26): 2119-25.

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/il4-il-4-interleukin-4/258437>