

ARG83359 Human IL4 ELISA Kit

Package: 96 wells
Store at: 4°C, -20°C

Component

Cat. No.	Component Name	Package	Temp
ARG83359-01	Antibody Coated Microplate	8 X 12 strips	4°C
ARG83359-02	Standards Mixture	3 vials	4°C
ARG83359-03	100X Antibody Conjugate Mixture	120 µl	≤ -20°C
ARG83359-04	100X HRP-Streptavidin solution	120 µl	4°C
ARG83359-05	Standard/Sample Diluent Buffer	20 ml	4°C
ARG83359-06	Antibody Diluent Buffer	30 ml	4°C
ARG83359-07	20X Wash Buffer	45 ml	4°C
ARG83359-08	TMB substrate	12 ml	4°C (protect from light)
ARG83359-09	STOP solution	12 ml	4°C
ARG83359-10	Plate sealer	3 adhesive strips	Room temperature

Summary

Product Description	ARG83359 Human IL4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL4 in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with IL1, IL2, IL3, IL5, IL6, IL8, IL10, IL12, IFN, TNF and sTNF-RII
Target Name	IL4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	3.9 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	7.8 - 500 pg/ml
Sample Volume	50 µl
Precision	CV: less than 10%
Alternate Names	BSF-1; IL-4; B-cell stimulatory factor 1; BCGF1; Lymphocyte stimulatory factor 1; BCGF-1; Interleukin-4; Pitakinra; Binetrakin; BSF1

Application Instructions

Assay Time 4 hours

Properties

Form 96 well

Storage instruction Store the kit at 4°C, -20°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol IL4

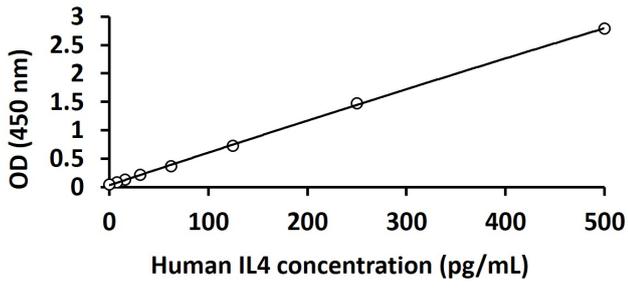
Gene Full Name interleukin 4

Background The protein encoded by this gene is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Function Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. [UniProt]

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Research Area Cancer kit; Immune System kit



ARG83359 Human IL4 ELISA Kit standard curve image

ARG83359 Human IL4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.
