

ARG80106 Human IL4 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80106-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80106-002	Standard (Lyophilized)	3 X 0.5 ng/vial	4°C
ARG80106-003	Standard diluent buffer	20 ml	4°C
ARG80106-004	Antibody conjugate concentrate	400 µl	4°C
ARG80106-005	Antibody diluent buffer	16 ml	4°C
ARG80106-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80106-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80106-008	20X Wash buffer	50 ml	4°C
ARG80106-009	TMB substrate	12ml	4°C (Protect from light)
ARG80106-010	STOP solution	12ml	4°C
ARG80106-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80106 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	0.8 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	1.56 - 100 pg/ml

Sample Volume	100 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; Pitrakinra; Binetrakin; BSF1

Application Instructions

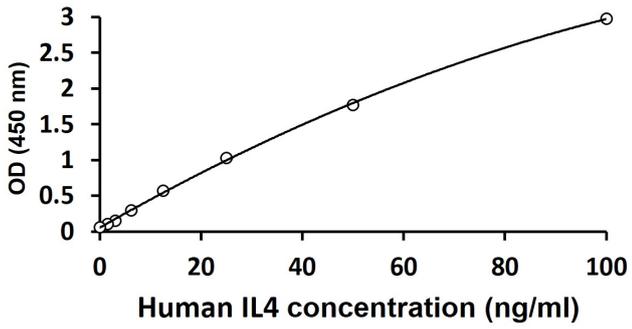
Assay Time	4 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°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]
Highlight	Related products: IL4 antibodies ; IL4 ELISA Kits ; IL4 recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Cancer kit; Immune System kit



ARG80106 Human IL4 ELISA Kit standard curve image

ARG80106 Human IL4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.