

## ARG21437 anti-IL4 antibody [MP4-25D2] (Biotin)

Package: 100 µg  
Store at: 4°C

### Summary

Product Description	Biotin-conjugated Rat Monoclonal antibody [MP4-25D2] recognizes IL4
Tested Reactivity	Hu, Bb, R. Mk
Tested Application	ELISA, ELISPOT, FACS, IHC-Fr, Neut
Specificity	Human/Rhesus/Cynomolgus/Baboon IL-4.
Host	Rat
Clonality	Monoclonal
Clone	MP4-25D2
Isotype	IgG1, kappa
Target Name	IL4
Species	Human
Immunogen	CHO-expressed human IL-4
Conjugation	Biotin
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

Application table	Application	Dilution
	ELISA	1:2000 - 1:4000
	ELISPOT	Assay-dependent
	FACS	Assay-dependent
	IHC-Fr	Assay-dependent
	Neut	Assay-dependent

**Application Note** \* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

**Note**

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

## Bioinformation

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**Database links**

[GeneID: 3565 Human](#)

[Swiss-port # P05112 Human](#)

**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]

**Calculated Mw**

17 kDa