

Recombinant Cynomolgus/Rhesus macaque IL4R protein, Fc-tagged

Cat. No. IL4R-19C Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Cynomolgus/Rhesus macaque IL4R protein (Met26-Arg232), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293). In the region Met26-Arg232, the AA sequence of Cynomolgus and Rhesus macaque IL4R are homologous.

Species Cynomolgus/Rhesus macaque

Source HEK293

ProteinLength 207

Description IL-4 is a pleiotropic cytokine produced by activated Th2 cells and mast cells, and play a pivotal role in immune responses. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells. Hematopoietic cellular responses to IL-4 are mediated by a high affinity receptor complex comprised of the 140 kDa IL4R α (CD124) subunit and the 70 kDa common cytokine γ c chain (CD132).

Interleukin 4 Receptor (IL4R) also known as CD124, IL4R α and BSF receptor, is a type I cytokine receptor produced by activated Th2 cells and mast cells, and plays an important role in Th2-biased immune responses, alternative macrophage activation, mucosal immunity, allergic inflammation, tumor progression, and atherogenesis. A soluble form of the encoded IL4R protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-m

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ediated cell proliferation and IL5 upregulation by T-cells. IL4R can alternatively associate with IL13Ra1 to form the type II receptor which is responsive to both IL4 and IL13. Interleukin-4 receptor has been shown to interact with SHC1.

Form

Lyophilized from 0.22 um filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.

Molecular Mass

The protein has a calculated MW of 50.4 kDa. The protein migrates as 60-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per ug by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

-20 centigrade to -70 centigrade for 12 months in lyophilized state;

-70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name

IL4R

Official Symbol

IL4R

Synonyms

IL4R; interleukin 4 receptor; interleukin-4 receptor subunit alpha; CD124; IL-4

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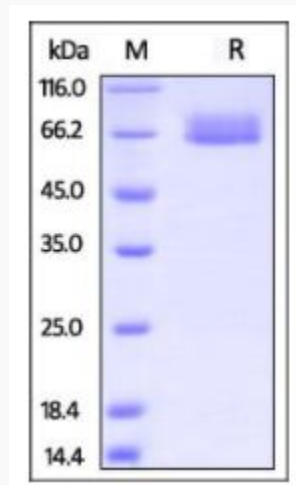
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receptor subunit alpha; interleukin-4 receptor alpha chain; IL4RA; IL-4RA

Gene ID	102133649
mRNA Refseq	XM_005591515.2
Protein Refseq	XP_005591572.1
UniProt ID	G7Q0S7

SDS-PAGE of IL4R-19C



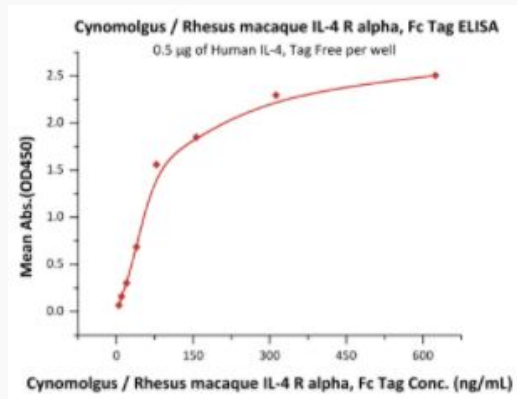
Cynomolgus/Rhesus macaque IL-4 R alpha, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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**Bioactivity-ELISA of
IL4R-19C**



Immobilized Human IL-4, Tag Free at 5 µg/mL (100 µL/well) can bind Cynomolgus /Rhesus macaque IL-4 R alpha, Fc Tag with a linear range of 10-78 ng/mL (QC tested).

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