

Datasheet for ABIN2870595
IL4 Receptor Protein (AA 26-232) (His tag)



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2 Images

Overview

Quantity:	50 µg
Target:	IL4 Receptor (IL4R)
Protein Characteristics:	AA 26-232
Origin:	Cynomolgus, Rhesus Monkey
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL4 Receptor protein is labelled with His tag.

Product Details

Sequence:	AA 26-232
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 25.6 kDa. The protein migrates as 45-55 kDa under reducing (R) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL4 Receptor (IL4R)
Alternative Name:	IL-4 R alpha (IL4R Products)
Background:	IL-4 is a pleiotropic cytokine produced by activated Th2 cells and mast cells, and plays 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.

Target Details

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-mediated cell proliferation and IL5 upregulation by T-cells. IL4R can alternatively associate with IL-13R α 1 to form the type II receptor which is responsive to both IL-4 and IL-13. Interleukin-4 receptor has been shown to interact with SHC1.

Molecular Weight:	25.6 kDa
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UniProt:	G7Q0S7
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Pathways:	JAK-STAT Signaling , Positive Regulation of Immune Effector Process
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Application Details

Restrictions:	For Research Use only
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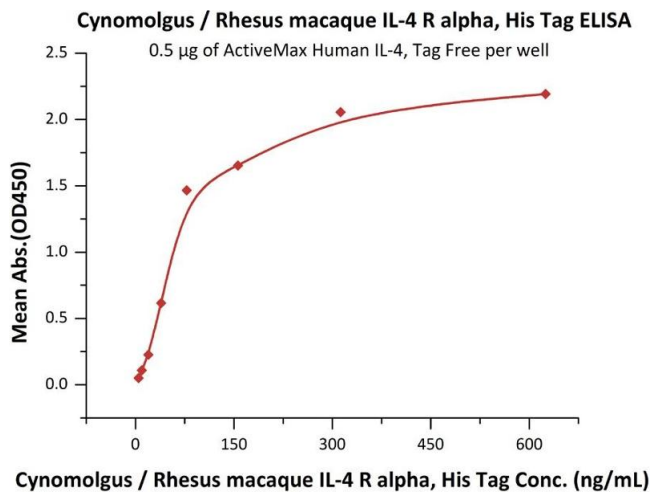
Handling

Format:	Lyophilized
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Buffer:	PBS, pH 7.4
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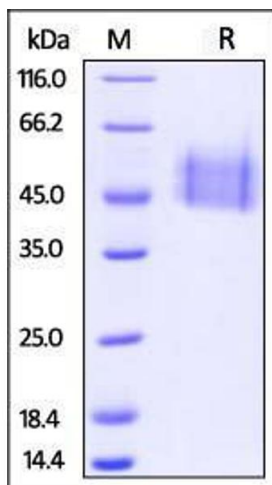
Handling Advice:	Please avoid repeated freeze-thaw cycles.
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Storage:	-20 °C
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ELISA

Image 1. Immobilized Human IL-4, Tag Free (ABIN2181318,ABIN3071738) at 5 µg/mL (100 µL/well) can bind Cynomolgus / Rhesus macaque IL-4 R alpha, His Tag (ABIN2870594,ABIN2870595) with a linear range of 10-78 ng/mL (QC tested).



SDS-PAGE

Image 2. Cynomolgus IL-4 R alpha, His 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%.