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Datasheet for ABIN2870750

IL4 Receptor Protein (AA 26-233) (Fc Tag)

2 Images

Overview

Quantity:	100 µg
Target:	IL4 Receptor (IL4R)
Protein Characteristics:	AA 26-233
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL4 Receptor protein is labelled with Fc Tag.

Product Details

Sequence:	AA 26-233
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 51 kDa. The protein migrates as 60-66 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: 51 kDa

NCBI Accession: [NP_001008700](#)

Pathways: [JAK-STAT Signaling](#), [Positive Regulation of Immune Effector Process](#)

Application Details

Restrictions: For Research Use only

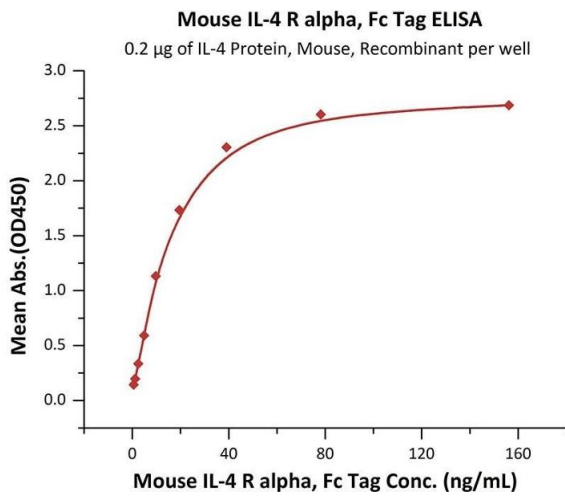
Handling

Format: Lyophilized

Buffer: Tris with Glycine, Arginine and NaCl, pH 7.5

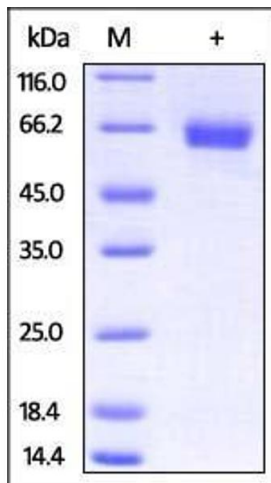
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



ELISA

Image 1. Immobilized IL-4 Protein, Mouse, Recombinant at 2 µg/mL (100 µL/well) can bind Mouse IL-4 R alpha, Fc Tag (ABIN2870749, ABIN2870750) with a linear range of 0.6-20 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Mouse 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%.