

Active Recombinant Mouse Il4ra Homodimer Protein, His tagged

Cat. No. Il4ra-45M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

IL-4Rα dimer protein contains an IL-4Rα extracellular domain (UniProt# P16382) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.

Species

Mouse

Source

HEK293T

ProteinLength

26-233 aa

Description

Interleukin 4 receptor alpha (IL-4Rα) is a Type I transmembrane and a Type 1 cytokine receptor. IL-4Rα is also known as cluster of differentiation 124 (CD124). IL-4Rα is a key component in interleukin 4 (IL-4) and IL-13 cytokine signaling involved in immune regulation, particularly in Th2 immune responses, allergy, and asthma. IL-4Rα contains an extracellular domain with an overall L shape organized in two covalently linked domains: an h-type immunoglobulin fold (D1) and a standard fibronectin type III (FN III)-like topology (D2). IL-4Rα can bind IL-4 and IL-13 and allergic inflammation is largely driven by IL-4 and IL-13 signaling through IL-4Rα, making IL-4Rα a promising therapeutic target for allergic diseases. While structurally and functionally similar to human IL-4Rα homodimer, mouse IL-4Rα homodimer is a species-specific tool essential for preclinical studies, basic research, and translational research.

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Molecular Mass	65 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for IL-4Rα-specific antibody binding assays. Suggested Applications: SPR & BLI for IL-4Rα-specific antibody binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

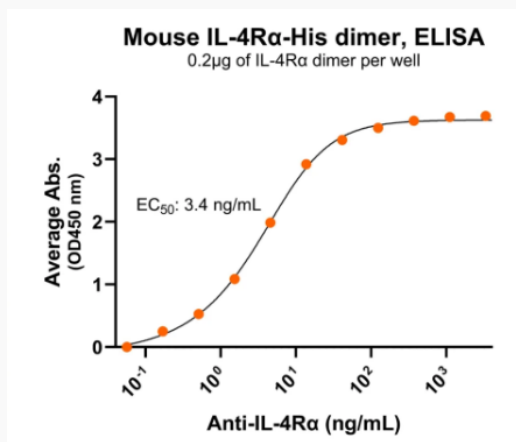
GENE INFORMATION

Gene Name	Il4ra interleukin 4 receptor, alpha [Mus musculus (house mouse)]
Official Symbol	Il4ra
Synonyms	IL4RA; interleukin 4 receptor, alpha; interleukin-4 receptor subunit alpha; IL-4RA; IL-4R-alpha; IL-4R subunit alpha; IL-4 receptor alpha chain; IL-4 receptor subunit alpha; Il4r; CD124; MGC118473;
Gene ID	16190
mRNA Refseq	NM_001008700
Protein Refseq	NP_001008700

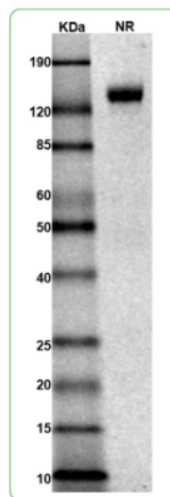
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UniProt ID
P16382
Bioactivity-Antibody Binding


Immobilized mouse IL-4Rα protein dimer, His tag can bind anti-mouse IL-4Rα polyclonal antibody with half maximal effective concentration (EC₅₀) range of 1.7-6.9 ng/mL (QC tested).

SDS-PAGE and WB


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MW: Molecular Weight marker reduced condition NR: IL-4R α dimer under non-reduced condition

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