

## 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.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

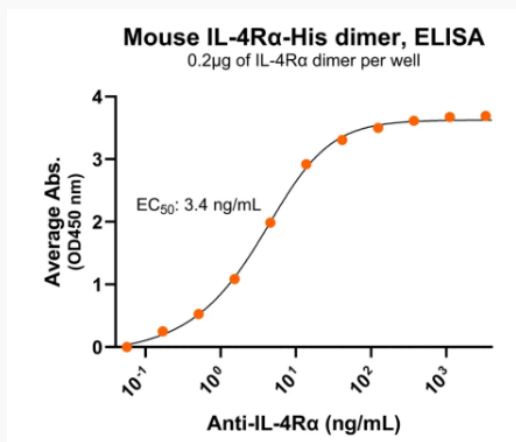
## GENE INFORMATION

|                        |                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Il4ra interleukin 4 receptor, alpha [ Mus musculus (house mouse) ]                                                                                                                                    |
| <b>Official Symbol</b> | Il4ra                                                                                                                                                                                                 |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 16190                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>     | NM_001008700                                                                                                                                                                                          |
| <b>Protein Refseq</b>  | NP_001008700                                                                                                                                                                                          |

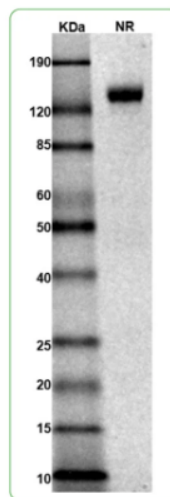
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**UniProt ID**
**P16382**
**Bioactivity-Antibody Binding**


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 $\alpha$  dimer under non-reduced condition

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