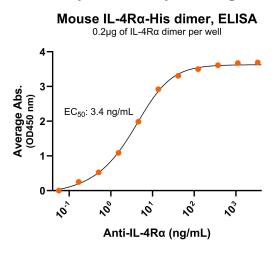
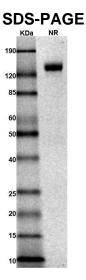


Mouse IL-4Ra Protein Dimer, His Tag Product Code: CSP-25220-01 For Research Use Only (RUO)

Bioactivity – Antibody Binding



Immobilized mouse IL-4R α protein dimer, His tag (Cat. No. CSP-25220-01) can bind anti-mouse IL-4R α polyclonal antibody with half maximal effective concentration (EC50) range of 1.7-6.9 ng/mL (QC tested).



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

The migration range of the heterodimer protein with glycosylation under non-reducing condition is between 120 and 190 kDa on SDS PAGE.

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Mouse IL-4Ra Protein Dimer, His Tag Product Code: CSP-25220-01 For Research Use Only (RUO)

Expression Host HEK293T

Purity

Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Protein Construct

IL-4R α dimer protein contains an IL-4R α extracellular domain (UniProt# P16382) fused with a proprietary cisdimer motif followed by a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

65 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing condition is between 120 and 190 kDa on SDS PAGE.

Shipping Conditions

Frozen Dry Ice

Protein Name

Alternate Name(s)

IL4R, cluster of differentiation 124, CD124, IL-4RA, IL4RA, Interleukin-4 receptor

Amino Acid Range

AA: I26-R233

Formulation

0.22µm filtered PBS, pH 7.4

Stability & Storage -80°C

Background

Interleukin 4 receptor alpha (IL-4R α) is a Type I transmembrane and a Type 1 cytokine receptor. IL-4R α is also known as cluster of differentiation 124 (CD124). IL-4R α 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-4R α 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-4R α can bind IL-4 and IL-13 and allergic inflammation is largely driven by IL-4 and IL-13 signaling through IL-4R α , making IL-4R α a promising therapeutic target for allergic diseases. While structurally and functionally similar to human IL-4R α homodimer, mouse IL-4R α homodimer is a species-specific tool essential for preclinical studies, basic research, and translational research.