Active Recombinant Human IL4R Homodimer Protein, His tagged

Cat. No. IL4R-44H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IL-4Rα dimer protein contains a IL-4Rα extracellular domain (UniProt# P24394) fused with a proprietary cis-dimer motif followed by a His tag at the C-terminus was expressed in HEK293T.
Species	Human
Source	HEK293T
ProteinLength	26-232 aa
Description	Human interleukin 4 receptor alpha (IL-4Rα) is a Type I transmembrane and a Type I 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.
Molecular Mass	64 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing

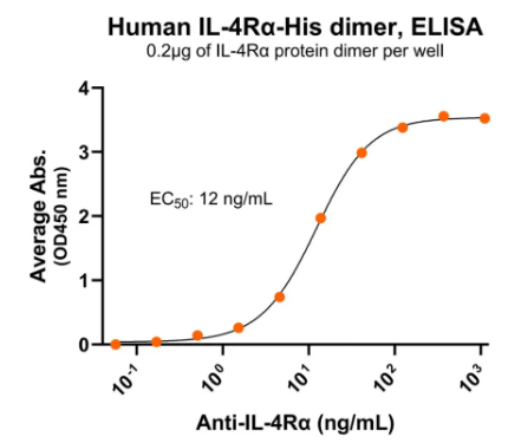
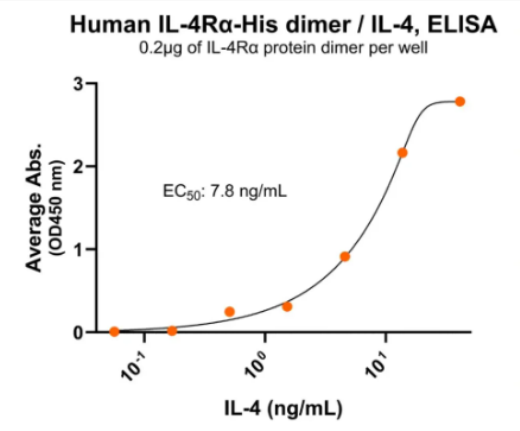
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	condition
Application	Verified Applications: ELISA for IL-4Rα-specific antibody and interleukin 4 (IL-4) ligand protein binding assays. Suggested Applications: SPR & BLI for IL-4Rα-specific antibody and IL-4 protein binding assays. Animal immunization, RUO.
Storage	Store at -80 centigrade.
Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

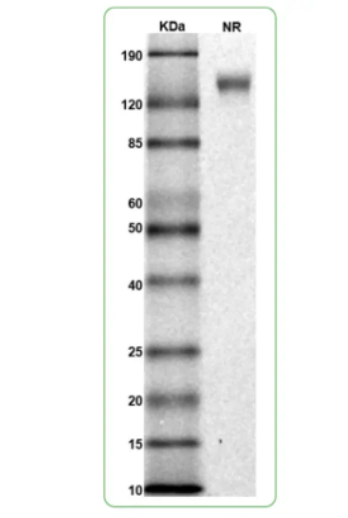
GENE INFORMATION

Gene Name	IL4R interleukin 4 receptor [Homo sapiens (human)]
Official Symbol	IL4R
Synonyms	IL4R; interleukin 4 receptor; interleukin-4 receptor subunit alpha; CD124; IL-4 receptor subunit alpha; interleukin-4 receptor alpha chain; IL4RA; IL-4RA;
Gene ID	3566
mRNA Refseq	NM_000418
Protein Refseq	NP_000409
MIM	147781
UniProt ID	P24394

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Bioactivity-Antibody Binding	 Immobilized human IL-4Rα protein dimer, His-tag at 2 μg/mL (100 μL/well) can bind anti-human IL-4Rα monoclonal antibody with half maximal effective concentration (EC50) range of 6-24 ng/mL (QC tested).
Bioactivity-Ligand Binding	 Immobilized human IL-4Rα protein dimer, His-tag at 2 μg/mL (100 μL/well) can bind human IL-4 with half maximal effective concentration (EC50) range of 3.9-15.6 ng/mL (QC tested).

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SDS-PAGE and WB	 MW: Molecular Weight marker reduced condition NR: IL-4Rα dimer under non-reduced condition

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