

## HUMAN IL4RA PROTEIN, MFC TAG

**Cat.#:** I1351

**Product Name:** Human IL4RA Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CD124;IL-4RA;IL4RA

**Target:** IL4RA

**UNIPROT ID:** P24394

**Description:** Recombinant Human IL4RA with C-terminal mouse Fc tag

**Background:** This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. Allelic variations in this gene have been associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. Polymorphisms in this gene are also associated with resistance to human immunodeficiency virus type-1 infection. Alternate splicing results in multiple transcript variants.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 49.8 kDa after removal of the signal peptide. The apparent molecular mass of IL4RA-mFc is approximately 70-100 kDa due to glycosylation.

**Molecular Characterization:** IL4RA(Met26-His232) mFc(Pro99-Lys330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

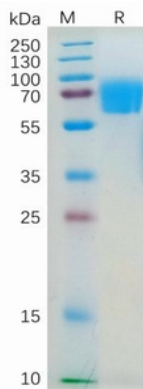


Figure 1. Human IL4RA Protein, mFc Tag on SDS-PAGE under reducing condition.

### Human IL4RA,mFc Tagged protein ELISA

0.2 µg of Human IL4RA, mFc tagged protein per well

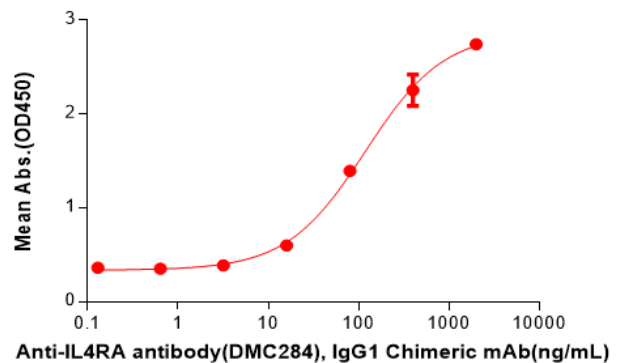


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human IL4RA Protein, mFc Tag(I1351) can bind Anti-IL4RA antibody(DMC284), IgG1 Chimeric mAb in a linear range of 16.0-400 ng/mL.