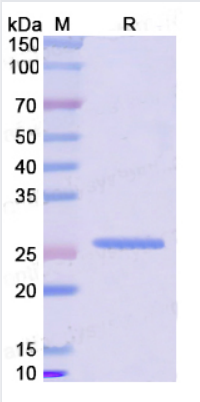
CD124/IL4R Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD124/IL4R, Recombinant Protein
Full Product Name	Recombinant Human CD124/IL4R, N-His
Product Gene Name	CD124/IL4R recombinant protein
Product Synonym Names	IL-4RA; IL-4-binding protein; IL-4 receptor subunit alpha; Soluble IL-4R-alpha; IL4-BP; IL4R; IL-4R subunit alpha; IL-4R-alpha; CD124; Interleukin-4 receptor subunit alpha; IL4RA; Soluble IL-4 receptor subunit alpha; sIL4Ralpha/prot
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	89,658 Da
Sequence Positions	Met26-His232
Chromosome Location	Chromosome: 16; NC_000016.9 (27325230..27376099). Location: 16p12.1-p11.2
OMIM	147781
3D Structure	ModBase 3D Structure for P24394
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CD124/IL4R recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD124/IL4R recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for CD124/IL4R recombinant protein	MBS1573696 is a recombinant protein targeting CD124/IL4R. Also known as Recombinant Human CD124/IL4R, N-His. Host: E coli.
Other Notes	Small volumes of CD124/IL4R recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of CD124/IL4R recombinant protein
SDS PAGE for recombinant Human CD124/IL4R

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD124/IL4R. It may not necessarily be applicable to this product.

NCBI GI #	4557669
NCBI GeneID	3566
NCBI Accession #	NP_000409.1
UniProt Primary Accession #	P24394
UniProt Secondary Accession #	Q96P01; Q9H181; Q9H182; Q9H183; Q9H184; Q9H185; Q9H186; Q9H187; Q9H188; B9EKU8; H3BSY5
UniProt Related Accession #	P24394
GenBank Nucleotide #	NM_000418.3
NCBI Official Full Name	interleukin-4 receptor subunit alpha isoform a
NCBI Official Synonym Full Names	interleukin 4 receptor
NCBI Official Symbol	IL4R
NCBI Official Synonym Symbols	CD124; IL4RA; IL-4RA
UniProt Protein Name	Interleukin-4 receptor subunit alpha
UniProt Synonym Protein Names	IL-4-binding protein
UniProt Gene Name	IL4R
UniProt Synonym Gene Names	IL4RA; IL-4 receptor subunit alpha; IL-4R subunit alpha; IL-4R-alpha; IL-4RA; Soluble IL-4 receptor subunit alpha; Soluble IL-4R-alpha; sIL4Ralpha/prot; IL4-BP
UniProt Entry Name	IL4RA_HUMAN
NCBI Protein Information	interleukin-4 receptor subunit alpha; IL4R nirs variant 1; IL-4 receptor subunit alpha; interleukin-4 receptor alpha chain
NCBI Summary for CD124/IL4R	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, sinusitus, 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. [provided by RefSeq, Apr 2012]

UniProt Comments for CD124/IL4R	IL4R: Receptor for both interleukin 4 and interleukin 13. Couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2. Belongs to the type I cytokine receptor family. Type 4 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: 16p12.1-p11.2 Cellular Component: extracellular space; integral to plasma membrane; receptor complex Molecular Function: protein binding; interleukin-4 receptor activity; receptor signaling protein activity Biological Process: ovulation; positive regulation of T-helper 2 cell differentiation; negative regulation of T-helper 1 cell differentiation; response to estrogen stimulus; production of molecular mediator of acute inflammatory response; immune response; defense response to protozoan; signal transduction; regulation of cell proliferation; positive regulation of macrophage activation Disease: Ige Responsiveness, Atopic; Human Immunodeficiency Virus Type 1, Susceptibility To
Research Articles on CD124/IL4R	**1.** The IL1B gene -5839C > T and IL4R 1902A > G polymorphisms and IL12RB1 -1094A/-641C and TNF -1031 T/-863A/-857 T/-308 G/-238 G haplotypes were associated with malaria susceptibility.
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