

Recombinant Human IL2RA Protein, hFc-tagged, Alexa Fluor 488 conjugated

Cat. No. IL2RA-170HAF488 Lot. No. (See product label)

SPECIFICATION

Product Overview Alexa Fluor 488 conjugated recombinant human IL2RA (Glu22-Cys213) protein was fused to human IgG1 Fc tag at C-terminus and expressed in human 293 cells (HEK293).

Species Human

Source HEK293

ProteinLength Glu22-Cys213


Description Interleukin-2 receptor subunit alpha (IL2RA) is also known as IL-2R subunit alpha, IL-2-RA, IL2-RA, TAC antigen, p55, CD antigen CD25, is a type I transmembrane glycoprotein. IL2RA is expressed on activated T cells and regulatory T cells, and is capable of binding IL2 with low affinity by itself. However, a ligand-induced high affinity heterotrimeric receptor complex is produced when IL2RA is associated non-covalently with the IL2 receptor beta and gamma chain, and subsequently initiates the intracellular signal pathways such as MAPK or JAK/STAT. On dendritic cells (DC), CD25 has been previously regarded as an activation marker, while both murine and human DC can express CD25, they do not express the beta-chain of the IL-2 receptor, which is indispensable for the execution of IL-2 signaling.

Form Lyophilized

Molecular Mass The protein has a calculated MW of 48.4 kDa. The protein migrates as 60-66 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Glu 22
Endotoxin	< 1.0 EU/ µg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 488

GENE INFORMATION

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Gene Name	IL2RA
Official Symbol	IL2RA
Synonyms	IL2RA; interleukin 2 receptor, alpha; IL2R; interleukin-2 receptor subunit alpha; CD25; p55; IL2-RA; IL-2-RA; TAC antigen; IL-2R subunit alpha; IL-2 receptor subunit alpha; TCGFR; IDDM10
Gene ID	3559
mRNA Refseq	NM_000417
Protein Refseq	NP_000408
MIM	147730
UniProt ID	P01589

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