

# Recombinant Mouse Il2ra Protein, His-tagged, FITC conjugated

Cat. No. Il2ra-4021MF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	FITC conjugated recombinant Mouse Il2ra (Glu22-Lys236) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	Glu22-Lys236
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	The protein has a calculated MW of 26.6 kDa. The protein migrates as 40-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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<b>N-terminal Sequence Analysis</b>	Glu 22
<b>Endotoxin</b>	< 1.0 EU/ µg by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Characteristic</b>	<p>Disulfide-linked homodimer</p> <p>Labeled with FITC via amines</p> <p>Excitation source: 488 nm spectral line, argon-ion laser</p> <p>Excitation Wavelength: 488 nm</p> <p>Emission Wavelength: 535 nm</p>
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Storage Buffer</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Reconstitution</b>	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.
<b>Conjugation</b>	FITC

## GENE INFORMATION

**Gene Name** Il2ra

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<b>Official Symbol</b>	<a href="#">IL2ra</a>
<b>Synonyms</b>	IL2RA; interleukin 2 receptor, alpha chain; interleukin-2 receptor subunit alpha; IL2-RA; IL-2-RA; p55 chain; IL-2R alpha chain; IL-2R subunit alpha; IL-2 receptor subunit alpha; CD25; IL2r; Ly-43; MGC130561
<b>Gene ID</b>	<a href="#">16184</a>
<b>mRNA Refseq</b>	<a href="#">NM_008367</a>
<b>Protein Refseq</b>	<a href="#">NP_032393</a>
<b>UniProt ID</b>	<a href="#">P01590</a>

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