

Datasheet for ABIN7274069

IL2 Receptor beta Protein (AA 27-239) (Fc Tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL2 Receptor beta (IL2RB)
Protein Characteristics:	AA 27-239
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL2 Receptor beta protein is labelled with Fc Tag.

Product Details

Purpose:	Human IL-2 R beta/CD122 Protein
Sequence:	Ala27-Asp239
Characteristics:	Recombinant Human IL-2 R beta/CD122 Protein is expressed from HEK293 with hFc tag at the C-Terminus.It contains Ala27-Asp239.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 2.88 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

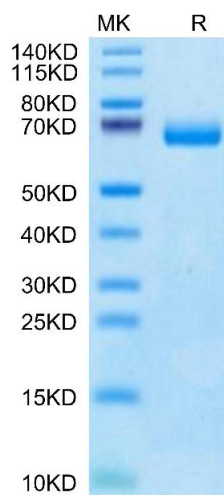
Target:	IL2 Receptor beta (IL2RB)
Alternative Name:	IL-2 R beta (IL2RB Products)
Background:	IL-2 R beta is a member of the cytokine receptor superfamily. Human IL-2 R beta cDNA encodes a 551 amino acid residue precursor Type I membrane protein with a 26 residue signal peptide, a 214 residue extracellular region, a 25 residue transmembrane region and a 286 residue cytoplasmic domain. Functional IL-2 receptors can exist in two affinity states on cell surfaces, the high affinity complex consisting of heterotrimers of the alpha, beta, and gamma chains, and the intermediate affinity complex comprising heterodimers of the beta and gamma chains.
Molecular Weight:	51.35 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
NCBI Accession:	NP_000869
Pathways:	JAK-STAT Signaling, Growth Factor Binding

Application Details

Restrictions:	For Research Use only
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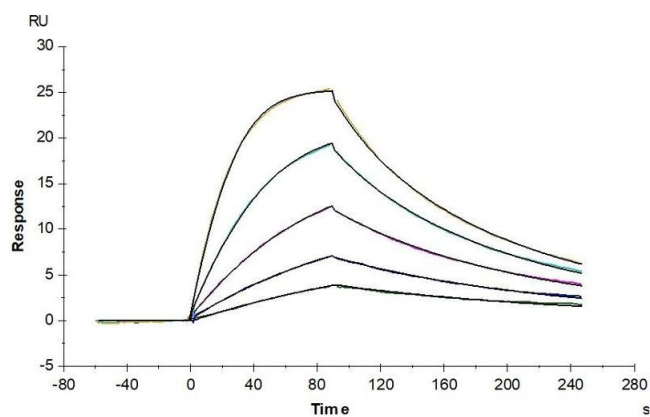
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



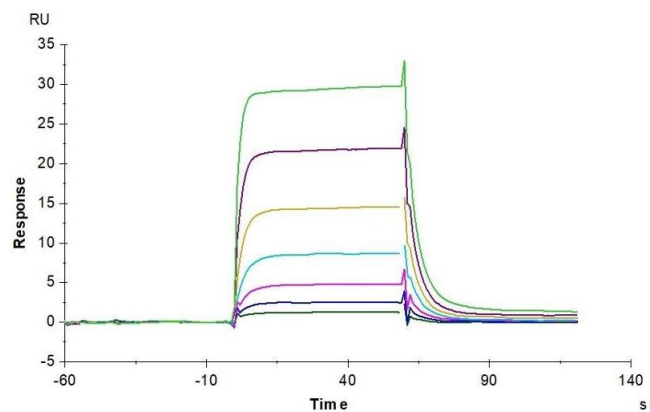
SDS-PAGE

Image 1. Human IL-2 R beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Surface Plasmon Resonance

Image 2. Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-15, No Tag with an affinity constant of 2.88 nM as determined in SPR assay (Biacore T200).



Surface Plasmon Resonance

Image 3. Human IL-2 R beta, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-2, No Tag with an affinity constant of 0.216 μ M as determined in SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274069.