

Datasheet for ABIN7196469 IL2 Receptor beta Protein (Fc Tag)



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Overview

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

Product Details

Purpose:	Recombinant Human CD122/IL-2RB Protein (Fc Tag)(Active)
Sequence:	Met 1-Asp 239
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Asp 239) of human IL2 Rβ (NP_000869.1) precursor was expressed with the C-terminal fused Fc region of human IgG1.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its ability to bind biotinylated recombinant rat IL2 in a functional ELISA. 2. Using the Octet RED System, the affinity constant (Kd) of Human IL2RB-Fc bound to Human IL2 was 0.8nM.

Target Details

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Target Details

Alternative Name: [CD122/IL-2RB \(IL2RB Products\)](#)

Background: Interleukin-2 receptor (IL-2R) also known as High affinity IL-2 receptor subunit beta, IL-2 receptor subunit beta, and IL-2RB, is involved in T cell-mediated immune responses. CD122/IL-2RB is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha subunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of CD122/IL-2RB are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. CD122/IL-2RB expression was restricted to the earliest B220+ cells (CD43+CD24-, prepro B cells, fraction A) that proliferate vigorously to IL-2 in the absence of any stromal cells, but not to IL-15. The high-affinity form of this receptor is expressed on activated T lymphocytes, activated B lymphocytes, and activated macrophages. CD122/IL-2RB plays a role in regulating normal lymphocyte development.

Synonym: CD122,IL15RB,P70-75

Molecular Weight: 51.6 kDa

NCBI Accession: [NP_000869](#)

Pathways: [JAK-STAT Signaling, Growth Factor Binding](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.