10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Human CellExp IL-2 R beta /CD122, human recombinant protein

IL2RB, RP5-1170K4.6, CD122, P70-75
Catalog # PBV11014r

Specification

Human CellExp IL-2 R beta /CD122, human recombinant protein - Product info

Primary Accession	P14784
Calculated MW	**This protein is fused with 6×His tag at the C-terminus, has a calculated MW of 25.4 kDa. The predicted N-terminus is Ala 27. DTT-reduced Protein migrates as 40 kDa due to glycosylation. KDa**

Human CellExp IL-2 R beta /CD122, human recombinant protein - Additional Info

Gene ID	**3560**
Gene Symbol	**IL2RB**

Other Names
IL2RB, RP5-1170K4.6, CD122, P70-75

Gene Source	**Human**
Source	**HEK293 cells**
Assay&Purity	**SDS-PAGE; ≥90%**
Assay2&Purity2	**N/A;**
Recombinant	**Yes**
Results	**Measured by its ability to inhibit the IL-15-dependent proliferation of MO7e human megakaryocytic leukemic cells. The ED50 for this effect is typically 0.5 - 2.5 µg/mL in the presence of 4.0 ng/mL of recombinant human IL-15.**

Target/Specificity
IL-2 R beta /CD122

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp IL-2 R beta /CD122, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Human CellExp IL-2 R beta /CD122, human recombinant protein - Images

Human CellExp IL-2 R beta /CD122, human recombinant protein - Background

Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to a cytokine called IL-2. The IL-2R is made up of 3 subunits - α (CD25), β (CD122) and γ (CD132) - non-covalently associating. The α and β chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the γ-chain, along with the β subunit. CD122 also known as IL2R beta, is a member of the type I cytokine receptor family. CD122 is the receptor for interleukin-2 and is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2.

Human CellExp IL-2 R beta /CD122, human recombinant protein - References

Hatakeyama M.,et al.Science 244:551-556(1989).
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.