



Recombinant Protein Technical Manual

Recombinant Human CD122/IL-2RB Protein (Fc Tag)(Active)
RPES1420

Product Data:

Product SKU: RPES1420

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_000869.1

Protein Information:

Molecular Mass: 51.6 kDa

AP Molecular Mass: 60-65 kDa

Tag: C-Fc

Bio-activity: 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.

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

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

Application: Functional ELISA

Synonyms: CD122;IL15RB;P70-75

Immunogen Information:

Sequence: Met 1-Asp 239

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 IL5. 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.