



Recombinant Protein Technical Manual

Recombinant Human IL12RB1 Protein (Fc Tag)

RPES2610

Product Data:

Product SKU: RPES2610

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_005526.1

Protein Information:

Molecular Mass: 84.2 kDa

AP Molecular Mass: 10010 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % 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 a 0.2 µm filtered solution of PBS, pH7.4.

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

Application:

Synonyms: CD212;IL2R-BETA1;IL12RB;IMD30; CD212 antigen; IL2 receptor beta component; IL2 receptor subunit beta; IL12R; IL2R subunit beta; IL12RB; IL2RB1; IL2R-BETA1; IL2R-beta; interleukin2 receptor beta chain; interleukin2 receptor subunit beta

Immunogen Information:

Sequence: Cys24-Glu540

Background:

Interleukin12 receptor subunit beta 1 (IL12RB1) is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. IL12RB1 can spontaneously form homodimers and -oligomers, which are able to bind IL12 with only low affinity. IL12 high affinity receptor complex is composed of two subunits designated IL12RB1 and IL12RB2. While IL12RB1 interacts with the IL2p40 subunit, IL2p35 is mainly connecting with IL12RB2. This receptor chain is also responsible for transmitting the IL12 signal into the cell. IL12RB1, to the contrary, is also part of the IL23R, where it interacts with the p40 subunit of IL23. IL12RB1 is expressed in activated T cells, NK cells and B cells.