



Recombinant Protein Technical Manual

Recombinant Rat IL23R/IL23 Receptor Protein (Fc Tag)(Active)

RPES4403

Product Data:

Product SKU: RPES4403

Size: 20µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: XP_003753958.1

Protein Information:

Molecular Mass: 69.4 kDa

AP Molecular Mass:

Tag: C-Fc

Bio-activity: Measured by its ability to bind recombinant mouse IL12Bh (m)+mIL23Ah in a functional ELISA.

Purity: (75.1+16.6) as determined by SDS-PAGE

Endotoxin: Please contact us for more information.

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: IL23R

Immunogen Information:

Sequence: Met1-Asp367

Background:

IL23R, also known as IL23 receptor, belongs to the type I cytokine receptor family, Type 2 subfamily. It contains 2 fibronectin type-III domains and is expressed by monocytes, Th1, Th0, NK and dendritic cells. Isoform 1 is specifically expressed in NK cells. IL23R associates with IL12RB1 to form the interleukin-23 receptor. It binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade. IL23 functions in innate and adaptive immunity and may participate in acute response to infection in peripheral tissues. IL23 may be responsible for autoimmune inflammatory diseases and be important for tumorigenesis. Genetic variations in IL23R are associated with inflammatory bowel disease type 17 (IBD17). IBD17 is a chronic, relapsing inflammation of the gastrointestinal tract with a complex etiology. Genetic variations in IL23R also can cause susceptibility to psoriasis type 7.