

Recombinant Protein Technical Manual

Recombinant Mouse IL-5RA/IL-5 Rα Protein (Human Cells, His Tag) (Active) RPES2004

Product Data:

Product SKU: RPES2004	Size: 10µg	

Species: Mouse

Expression host: Human Cells

Uniprot: P21183

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Molecular Mass:	37.6 kDa
AP Molecular Mass:	48 kDa
Tag:	C-6His
Bio-activity:	Immobilized Human IL5RA&IL5-Fc(Cat: PKSH032567) at 10μg/ml(100 μl/well) can bind Human IL-5RA-His.
Purity:	> 95 % as determined by 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 μ m filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Interleukin-5 receptor subunit alpha; IL-5 receptor subunit alpha; IL-5R subunit alpha; IL-5R-alpha; IL-5RA; CD125; Il5ra; Il5r

Sequence: Asp18-His339

Background:

Interleukin 5 Receptor alpha (IL-5 R α), also known as CD125, is a hematopoietin receptor that plays a dominant role in eosinophil biology. Mature mouse IL-5 R α consists of a 322 amino acid (aa) extracellular domain (ECD) with a WSxWS motif and a four cysteine motif, a 22 aa transmembrane segment, and a 54 aa cytoplasmic domain. The high affinity receptor for IL-5 is a complex that consists of the ligand binding IL-5 R α and the transmembrane common β chain (β c/CD131) which is shared with the receptor complexes for IL-3 and GM-CSF. IL-5 R α binds IL-5 at low affinity and then associates with preformed β c oligomers to form the signaling-competent receptor complex. IL-5 stimulation of CD34+ hematopoietic progenitor cells induces the up-regulation of transmembrane IL-5 R α followed by eosinophilic differentiation and activation. IL-5 R α also promotes the differentiation of basophils and B cells. Exposure of mature eosinophils to IL-5 attenuates their IL-5 responsiveness by inducing the down-regulation of surface IL-5 R α and increased production of soluble IL-5 R α .