

Datasheet for ABIN7320600

**IL5RA Protein (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	IL5RA
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL5RA protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Mouse IL-5RA/IL-5 Rα Protein (Human Cells, His Tag) (Active)
Sequence:	Asp18-His339
Characteristics:	Recombinant Mouse Interleukin-5 Receptor Subunit Alpha is produced by our Mammalian expression system and the target gene encoding Asp18-His339 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Immobilized Human IL-15RA&IL-15-Fc(Cat: PKSH032567) at 10µg/ml(100 µl/well) can bind Human IL-5RA-His.

## Target Details

Target:	IL5RA
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## Target Details

Alternative Name: IL-5RA/IL-5 Ralpha ([IL5RA Products](#))

Background: Interleukin 5 Receptor alpha (IL-5 R $\alpha$ ), also known as CD125, is a hematopoietin receptor that plays a dominant role in eosinophil biology. Mature mouse IL-5 R $\alpha$  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 $\alpha$  and the transmembrane common  $\beta$  chain ( $\beta$ c/CD131) which is shared with the receptor complexes for IL-3 and GM-CSF. IL-5 R $\alpha$  binds IL-5 at low affinity and then associates with preformed  $\beta$ 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 $\alpha$  followed by eosinophilic differentiation and activation. IL-5 R $\alpha$  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 $\alpha$  and increased production of soluble IL-5 R $\alpha$ .

Synonym: Interleukin-5 receptor subunit alpha, IL-5 receptor subunit alpha, IL-5R subunit alpha, IL-5R-alpha, IL-5RA, CD125, IL5ra, IL5r

Molecular Weight: 37.6 kDa

UniProt: [P21183](#)

Pathways: [JAK-STAT Signaling](#)

## Application Details

Restrictions: For Research Use only

## Handling

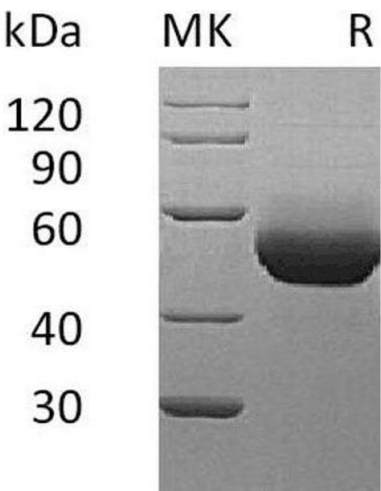
Format: Lyophilized

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

Buffer: Lyophilized from a 0.2  $\mu$ m filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, 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.



Western Blotting

Image 1.