

CD125
Catalog # PVGS1377

Specification

CD125 - Product Information

Primary Accession [O01344](#)

Species
Human

Sequence

DLLPDEKISL LPPVNFTIKV TGLAQVLLQW KPNPDQEQRN VNLEYQVKIN APKEDDYETR ITESKCVTIL
HKGFSASVRT ILQNDHSLLA SSWASAELHA PPGSPGTSIV NLTCTTNTTE DNYSRLRSYQ VSLHCTWLVG
TDAPEDTQYF LYRYGWSWTE ECQEYSKDTL GRNIACWFPR TFIKSKGRDW LAVLVNGSSK HSAIRPFDQL
FALHAIDQIN PPLNVTAIEIE GTRLSIQWEK PVSAPFIHCF DYEVKIHNTR NGYLQIEKLM TNAFISIIDD
LSKYDVQVRA AVSSMCREAG LWSEWSQPIY VGND E

Purity

> 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level

< 0.2 EU/ µg, determined by LAL method.

Formulation

Lyophilized after extensive dialysis against PBS.

Reconstitution

Reconstituted in ddH₂O or PBS at 100 µg/ml.

CD125 - Additional Information

Gene ID 3568

Other Names

Interleukin-5 receptor subunit alpha, IL-5 receptor subunit alpha, IL-5R subunit alpha, IL-5R-alpha, IL-5RA, CDw125, CD125, IL5RA, IL5R

Target Background

Interleukin-5 Receptor Alpha (IL-5RA), also known as CD125, belongs to the Type 5 subfamily in the type I cytokine receptor family. It is composed of a ligand-specific alpha subunit and a signal-transducing beta subunit shared by the receptors for IL-3 and GM-CSF. IL-5RA is mainly expressed on eosinophils and basophils, and plays important roles in the immunobiology of these cell types. It is reported that when stimulated by IL-5, eosinophils down-regulate surface IL-5RA expression to attenuate their IL-5 responsiveness. Elevated IL-5 production may induce immune cell infiltration which leads to allergic inflammation. IL-5RA has also been reported to promote the differentiation of basophils and B cells.

CD125 - Protein Information

Name IL5RA

Synonyms IL5R

Function

Cell surface receptor that plays an important role in the survival, differentiation, and chemotaxis of eosinophils (PubMed:9378992). Acts by forming a heterodimeric receptor with CSF2RB subunit and subsequently binding to interleukin-5 (PubMed:1495999, PubMed:22528658). In unstimulated conditions, interacts constitutively with JAK2. Heterodimeric receptor activation leads to JAK2 stimulation and subsequent activation of the JAK-STAT pathway (PubMed:9516124).

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Expressed on eosinophils and basophils.

CD125 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD125 - Images