

Anti-IL5RA Antibody
Catalog # ABO10932**Specification**

Anti-IL5RA Antibody - Product Information

Application	WB
Primary Accession	Q01344
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Interleukin-5 receptor subunit alpha(IL5RA) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-IL5RA Antibody - 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

Calculated MW

47685 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Tissue Specificity

Expressed on eosinophils and basophils.

Protein Name

Interleukin-5 receptor subunit alpha(IL-5 receptor subunit alpha/IL-5R subunit alpha/IL-5R-alpha/IL-5RA)

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human IL5RA(53-68aa NPDQEQRNVNLEYQVK).

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the type I cytokine receptor family. Type 5 subfamily.

Anti-IL5RA Antibody - 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](http://www.uniprot.org/citations/9378992)). Acts by forming a heterodimeric receptor with CSF2RB subunit and subsequently binding to interleukin-5 (PubMed: [1495999](http://www.uniprot.org/citations/1495999), PubMed: [22528658](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/9516124)).

Cellular Location

Membrane; Single-pass type I membrane protein.

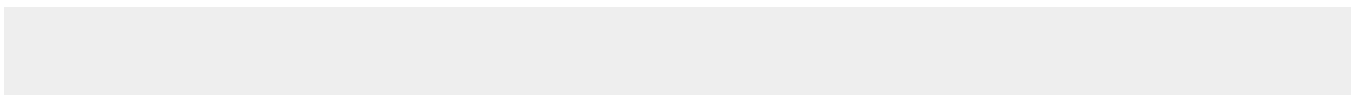
Tissue Location

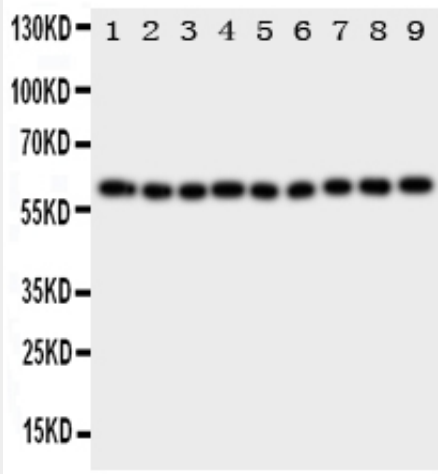
Expressed on eosinophils and basophils.

Anti-IL5RA Antibody - 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](#)

Anti-IL5RA Antibody - Images



Anti-IL5RA antibody, ABO10932, Western blotting All lanes: Anti IL5RA (ABO10932) at 0.5ug/ml
Lane 1: A549 Whole Cell Lysate at 40ug
Lane 2: SMMC Whole Cell Lysate at 40ug
Lane 3: U87 Whole Cell Lysate at 40ug
Lane 4: 293T Whole Cell Lysate at 40ug
Lane 5: PANC Whole Cell Lysate at 40ug
Lane 6: HELA Whole Cell Lysate at 40ug
Lane 7: JURKAT Whole Cell Lysate at 40ug
Lane 8: RAJI Whole Cell Lysate at 40ug
Lane 9: CEM Whole Cell Lysate at 40ug
Predicted bind size: 48KD
Observed bind size: 60KD

Anti-IL5RA Antibody - Background

IL5RA (INTERLEUKIN 5 RECEPTOR, ALPHA), also known as CD125, is a subunit of the Interleukin-5 receptor. IL5RA also denotes its human gene. The protein encoded by this gene is an interleukin 5 specific subunit of a heterodimeric cytokine receptor which is composed of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The IL5RA gene is mapped to 3p26-p24 by Southern blot analysis of DNA from a panel of mouse-human hybrid somatic cell lines complemented by in situ hybridization. And its Cytogenetic location is 3p26.2. Within this 15-residue stretch of IL5RA, the C-terminal phenylalanine is critical. The binding of this protein to IL5 depends on the beta subunit which is activated by the ligand binding and is required for the biological activities of IL5.