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Anti-IL5RA Antibody

Catalog # ABO10932

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.

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
Application Details	Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Expressed on eosinophils and basophils.
Source	Eukaryota
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 r˚Constitution, 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.

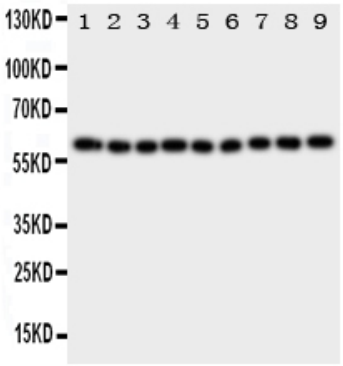
Protein Information

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.

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.

Images



Anti-IL5RA antibody, ABO10932, Western blottingAll lanes: Anti IL5RA (ABO10932) at 0.5ug/mlLane 1: A549 Whole Cell Lysate at 40ugLane 2: SMMC Whole Cell Lysate at 40ugLane 3: U87 Whole Cell Lysate at 40ugLane 4: 293T Whole Cell Lysate at 40ugLane 5: PANC Whole Cell Lysate at 40ugLane 6: HELA Whole Cell Lysate at 40ugLane 7: JURKAT Whole Cell Lysate at 40ugLane 8: RAJI Whole Cell Lysate at 40ugLane 9: CEM Whole Cell Lysate at 40ugPredicted bind size: 48KDObserved bind size: 60KD