

Anti-IL3RA Antibody
Catalog # ABO10931**Specification**

Anti-IL3RA Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | P26951 |
| Host | Rabbit |
| Reactivity | Human |
| Clonality | Polyclonal |
| Format | Lyophilized |

Description

Rabbit IgG polyclonal antibody for Interleukin-3 receptor subunit alpha(IL3RA) detection. Tested with WB in Human.

Reconstitution

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

Anti-IL3RA Antibody - Additional Information

Gene ID 3563

Other Names

Interleukin-3 receptor subunit alpha, IL-3 receptor subunit alpha, IL-3R subunit alpha, IL-3R-alpha, IL-3RA, CD123, IL3RA, IL3R

Calculated MW

43330 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Protein Name

Interleukin-3 receptor subunit alpha(IL-3 receptor subunit alpha/IL-3R subunit alpha/IL-3R-alpha/IL-3RA)

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 in the middle region of human IL3RA(135-151aa QYDLYLNVANRRRQQYEC).

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-IL3RA Antibody - Protein Information

Name IL3RA ([HGNC:6012](#))

Synonyms IL3R

Function

Cell surface receptor for IL3 expressed on hematopoietic progenitor cells, monocytes and B-lymphocytes that controls the production and differentiation of hematopoietic progenitor cells into lineage-restricted cells (PubMed: <http://www.uniprot.org/citations/10527461> target="_blank">10527461). Ligand stimulation rapidly induces heterodimerization with IL3RB, phosphorylation and enzyme activity of effector proteins such as JAK2 and PI3K that play a role in signaling cell proliferation and differentiation. Activation of JAK2 leads to STAT5-mediated transcriptional program (By similarity).

Cellular Location

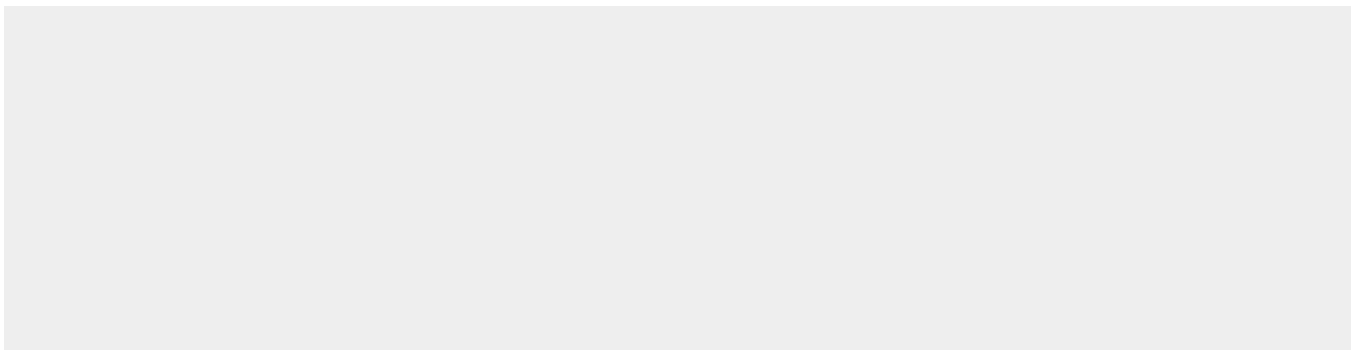
Membrane; Single-pass type I membrane protein.

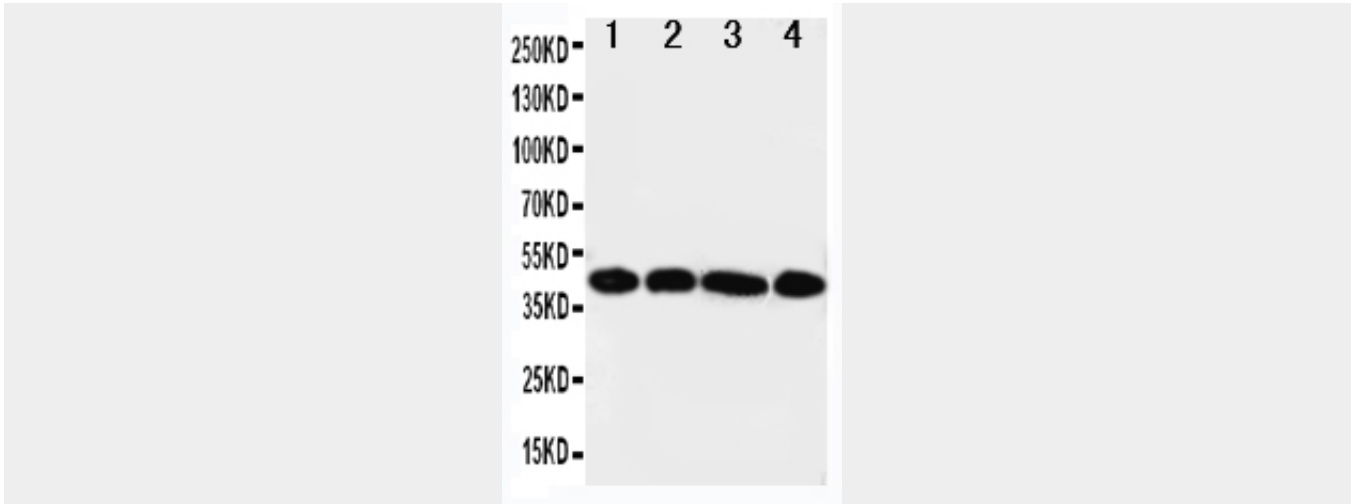
Anti-IL3RA Antibody - Protocols

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-IL3RA Antibody - Images





Anti-IL3RA antibody, ABO10931, Western blotting Lane 1: A431 Cell Lysate Lane 2: SMMC Cell Lysate Lane 3: U87 Cell Lysate Lane 4: 293T Cell Lysate

Anti-IL3RA Antibody - Background

IL3RA (INTERLEUKIN 3 RECEPTOR, ALPHA), also called CD123 (Cluster of Differentiation 123), is a human gene. The protein encoded by this gene is an interleukin 3 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 IL3RA is mapped on Xp22.33. The genomic structures of IL3RA and CSF2RA are very similar and share an additional exon encoding part of the C-terminal domain not found in other members of this gene family. As in human hematopoietic cells, IL3 and GMCSF competed for binding in fibroblasts expressing the cDNAs for IL3RA, CSF2RA, and the common beta subunit, indicating that different alpha subunits compete for a common beta subunit.