

**IL3RA Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1830a****Specification****IL3RA Antibody - Product Information**

Application	WB, FC, ICC, E
Primary Accession	<a href="#">P26951</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	43.3kDa KDa

**Description**

The protein encoded by this gene is an interleukin 3 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised 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 binding of this protein to IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found.

**Immunogen**

Purified recombinant fragment of human IL3RA (AA: 200-305) expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**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

**Dilution**

WB~~1/500 - 1/2000

FC~~1/200 - 1/400

ICC~~N/A

E~~1/10000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

IL3RA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## 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:<a href="http://www.uniprot.org/citations/10527461" target="\_blank">10527461</a>). 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).

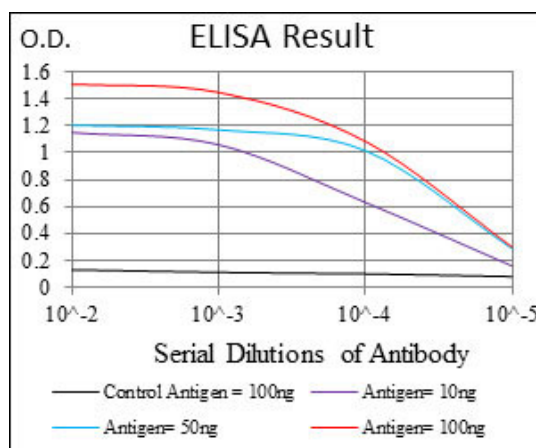
### Cellular Location

Cell membrane; Single-pass type I membrane protein

## 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](#)



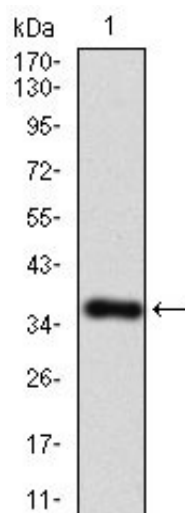


Figure 1: Western blot analysis using IL3RA mAb against human IL3RA recombinant protein. (Expected MW is 38.3 kDa)

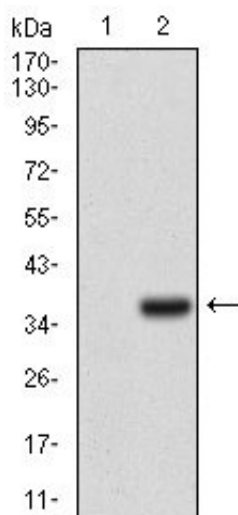


Figure 2: Western blot analysis using IL3RA mAb against HEK293 (1) and IL3RA (AA: 200-305)-hlgGfc transfected HEK293 (2) cell lysate.

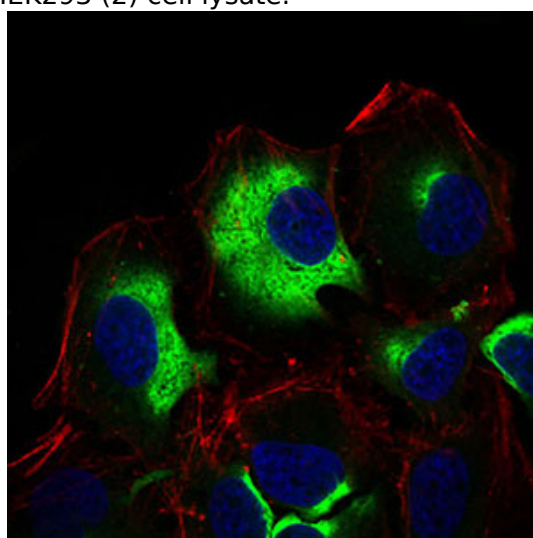


Figure 3: Immunofluorescence analysis of Hela cells using IL3RA mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

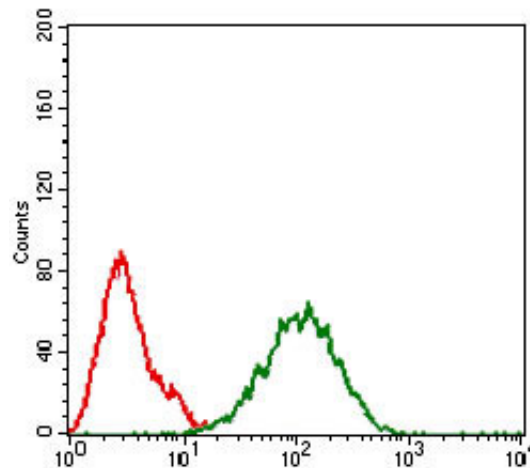


Figure 4: Flow cytometric analysis of Hela cells using IL3RA mouse mAb (green) and negative control (red).

### IL3RA Antibody - Background

This gene encodes activated leukocyte cell adhesion molecule (ALCAM), also known as CD166 (cluster of differentiation 166), which is a member of a subfamily of immunoglobulin receptors with five immunoglobulin-like domains (VVC2C2C2) in the extracellular domain. This protein binds to T-cell differentiation antigen CD6, and is implicated in the processes of cell adhesion and migration. Multiple alternatively spliced transcript variants encoding different isoforms have been found. ; ;

### IL3RA Antibody - References

1. Am J Clin Pathol. 2011 Oct;136(4):625-30.
2. Chin Med J (Engl). 2010 Aug 5;123(15):2034-7.