

## Product datasheet for **TA392684S**

### IL3RA Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 1-100 of Human CD123.
Specificity:	CD123 (S47) polyclonal antibody detects endogenous levels of CD123 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 43 kDa
Gene Name:	interleukin 3 receptor subunit alpha
Database Link:	<a href="#">Entrez Gene 3563 Human P26951</a>



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**Background:**

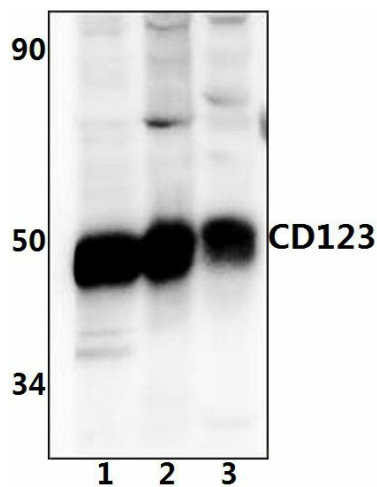
Interleukin-3, or IL-3, is a pleiotropic cytokine that is primarily secreted by activated T lymphocytes and stimulates the proliferation and differentiation of hematopoietic cells. IL-3 exerts its biological effects through a receptor which consists of a ligand-specific  $\alpha$  subunit (IL-3R $\alpha$ ) and a signal transducing  $\beta$  subunit (IL-3R $\beta$ ) common to the IL-3/IL-5/GM-CSF receptors. The  $\alpha$  subunits are low-affinity ligand-binding proteins while the  $\beta$  subunits do not themselves bind ligand, but are required for high affinity binding by the  $\alpha$  subunits. The mouse IL-3 receptor has two distinct  $\beta$  subunits, one that functions only in IL-3-mediated cell signaling and a second that is shared with IL-5 and GM-CSF. The murine  $\beta$  subunits are 91% homologous at the amino acid level but only 56% homologous to the human  $\beta$  subunit. The carboxy-terminus of the  $\beta$  subunit has been shown to be necessary for activation of the MAP kinase signaling pathway. Although the IL-3 receptor has no intrinsic kinase activity, stimulation with IL-3 leads to tyrosine phosphorylation of the JAK/Tyk 2 family member, JAK2, which in turn activates and causes nuclear translocation of Stat5a and Stat5b.

**Synonyms:**

IL-3 receptor subunit alpha; IL-3R-alpha; IL-3RA; IL-3R subunit alpha; Interleukin-3 receptor subunit alpha

**Note:**

For research use only, not for use in diagnostic procedure.

**Product images:**

Western blot (WB) analysis of CD123 (S47) polyclonal antibody at 1:500 dilution Lane1:MCF-7 whole cell lysate(40ug) Lane2:THP-1 whole cell lysate(40ug) Lane3:Jurkat whole cell lysate(40ug)