

Product datasheet for **TA392684M**

IL3RA Rabbit Polyclonal Antibody

Product data:

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| 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: | Entrez Gene 3563 Human P26951 |



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Background:

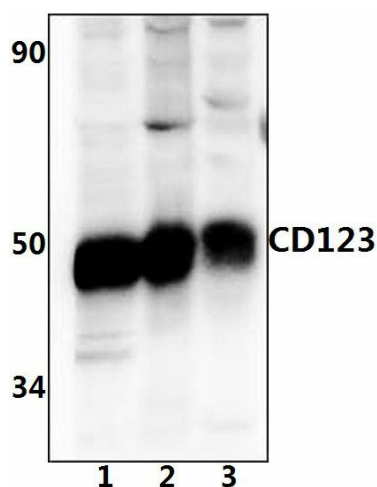
Interleukin-3, or IL-3, is a pleiotropic cytokine that is primarily secreted by activated T lymphocytes and stimulates the proliferation and differentiation of hematopoietic cells. IL-3 exerts its biological effects through a receptor which consists of a ligand-specific α subunit (IL-3R α) and a signal transducing β subunit (IL-3R β) common to the IL-3/IL-5/GM-CSF receptors. The α subunits are low-affinity ligand-binding proteins while the β subunits do not themselves bind ligand, but are required for high affinity binding by the α subunits. The mouse IL-3 receptor has two distinct β 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 β subunits are 91% homologous at the amino acid level but only 56% homologous to the human β subunit. The carboxy-terminus of the β 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)