

For Research Use Only

IL3RA/CD123 Recombinant antibody

Catalog Number: 83243-3-RR



Basic Information

Catalog Number: 83243-3-RR	GenBank Accession Number: BC035407	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 3563	CloneNo.: 240042E5
Source: Rabbit	ENSEMBL Gene ID: ENSG00000185291	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG	UNIPROT ID: P26951	
Immunogen Catalog Number: AG4452	Full Name: interleukin 3 receptor, alpha (low affinity)	
	Calculated MW: 378 aa, 43 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human	WB : HL-60 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human tonsillitis tissue,

Background Information

Interleukin-3 receptor subunit alpha (IL3RA), also known as CD123, belongs to the cytokine receptor family. It is a glycoprotein containing an extracellular domain, involving a predicted Ig-like domain, two FnIII domains, a transmembrane domain and an intracellular domain (PMID: 24513123). IL3RA is expressed on hematopoietic progenitor cells, plasmacytoid dendritic cells, basophils, monocytes, some B cells, and in a variety of hematologic malignancies (PMID: 10527461; 34855461). IL-3 initially binds to IL3RA and subsequently recruits the beta chain (CD131) to form the high-affinity receptor, resulting in the activation of a series of signaling pathways including the JAK/STAT, Ras-MAPK, and phosphatidylinositol 3-kinase pathways (PMID: 29296749). IL-3R signaling regulates the proliferation, survival, and differentiation of hematopoietic cells.

Storage

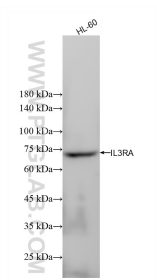
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

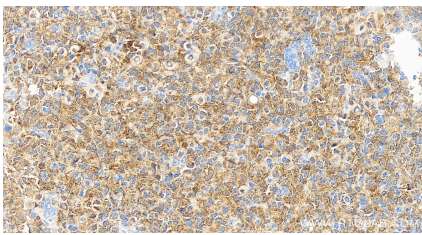
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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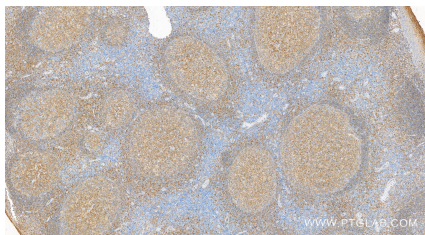
Selected Validation Data



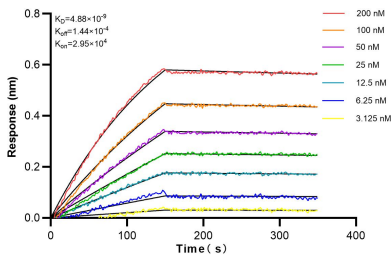
HL-60 cells were subjected to SDS PAGE followed by western blot with 83243-3-RR (IL3RA/CD123 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 83243-3-RR (IL3RA/CD123 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 83243-3-RR (IL3RA/CD123 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 82672-1-RR against Human IL3RA/CD123 were performed. The affinity constant is 4.88 nM.