

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:	1000 µg/ml	GeneID (NCBI):	3563	CloneNo.:	240042E5
Source:	Rabbit	ENSEMBL Gene ID:	ENSG00000185291	Recommended Dilutions:	WB 1:5000-1:50000
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, ELISA	Positive Controls:	
Species Specificity:	Human	WB : HL-60 cells,	

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

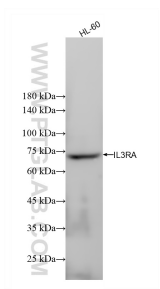
For technical support and original validation data for this product please contact:

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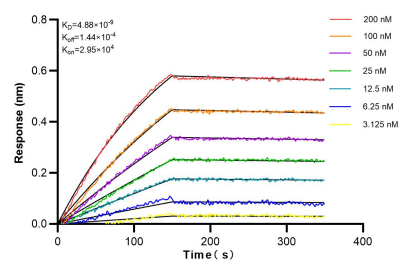
E: Proteintech-CN@ptglab.comW: ptgcn.com

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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.



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