

For Research Use Only

IL3RA/CD123 Recombinant antibody, PBS Only (Detector)



Catalog Number: 83243-1-PBS

Basic Information

Catalog Number: 83243-1-PBS	GenBank Accession Number: BC035407	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 3563	CloneNo.: 240042C10
Source: Rabbit	ENSEMBL Gene ID: ENSG00000185291	
Isotype: IgG	UNIPROT ID: P26951	
Immunogen Catalog Number: AG4452	Full Name: interleukin 3 receptor, alpha (low affinity)	
	Calculated MW: 378 aa, 43 kDa	

Applications

Tested Applications:
Indirect ELISA, Cytometric bead array

Species Specificity:
Human

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 -80°C.

Storage Buffer:
PBS Only

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

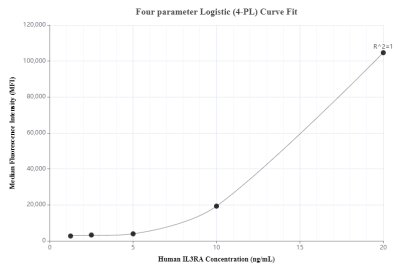
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Cytometric bead array standard curve of MP00176-1, IL3RA Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83243-2-PBS. Detection antibody: 83243-1-PBS. Standard: Ag4452. Range: 1.25-20 ng/mL