

For Research Use Only

Anti-Human IL3RA/CD123 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98107-1-PBS



Basic Information

Catalog Number:

98107-1-PBS

Concentration:

1mg, 2mg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC035407

GeneID (NCBI):

3563

ENSEMBL Gene ID:

ENSG00000185291

UNIPROT ID:

P26951

Full Name:

interleukin 3 receptor, alpha (low affinity)

Calculated MW:

378 aa, 43 kDa

Purification Method:

Protein A purification

CloneNo.:

241268E3

Applications

Tested Applications:

FC

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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

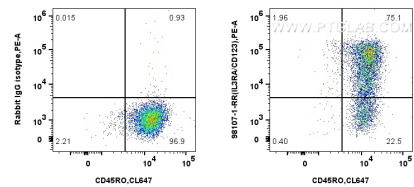
T: 4006900926

E: Proteintech-CN@ptglab.com

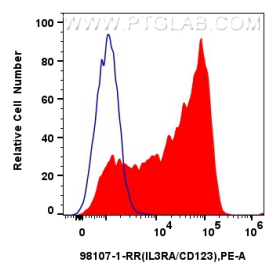
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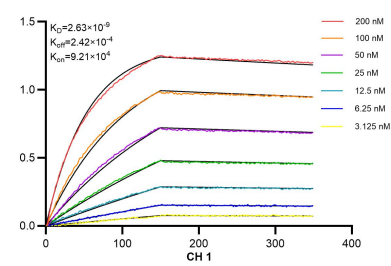
Selected Validation Data



1x10⁶ human immature monocyte-derived dendritic cells were surface stained with 0.25 ug Anti-Human IL3RA/CD123 Rabbit Recombinant Antibody (98107-1-RR, Clone:241268E3) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Human CD45RO (UCHL1) (CL647-65150, Clone: UCHL1). Cells were incubated with FC Receptor Block prior



1x10⁶ human immature monocyte-derived dendritic cells were surface stained with 0.25 ug Anti-Human IL3RA/CD123 Rabbit Recombinant Antibody (98107-1-RR, Clone:241268E3) (red) or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed. This data was developed using the same antibody clone.



Biolayer interferometry (BLI) kinetic assays of 98107-1-RR against Human IL3RA/CD123 were performed. The affinity constant is 2.63 nM.