For Research Use Only

IL3RA/CD123 Recombinant monoclonal antibody

Catalog Number:84256-1-RR



Purification Method:

Protein A purification

Recommended Dilutions:

IHC: 1:250-1:1000

CloneNo.:

241267B1

Positive Controls:

IHC: human tonsil tissue,

Basic Information

Catalog Number: GenBank Accession Number:

84256-1-RR BC035407

Size: GeneID (NCBI):

100ul , Concentration: 1000 μg/ml by 3563

Nanodrop; ENSEMBL Gene ID:
Source: ENSG00000185291

Rabbit UNIPROT ID: Isotype: P26951 IgG Full Name:

interleukin 3 receptor, alpha (low

affinity)
Calculated MW:
378 aa. 43 kDa

Applications

Tested Applications:

IHC, ELISA

Species Specificity:

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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.

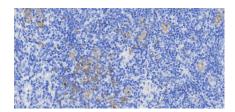
Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol, pH7.3 Aliquoting is unnecessary for -20°C storage

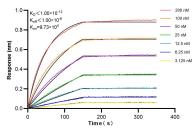
*** 20ul sizes contain 0.1% BSA

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

Selected Validation Data



Immunohistochemical analysis of paraffinembedded human tonsil tissue slide using 84256-1-RR (IL3RA/CD123 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84256-1-RR against Human IL3RA/CD123 were performed. The affinity constant is below 1 pM.