

For Research Use Only

APC Anti-Human IL3RA/CD123 (HI12H7)

Catalog Number: APC-65256



Basic Information

Catalog Number:

APC-65256

Concentration:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

BC035407

GeneID (NCBI):

3563

ENSEMBL Gene ID:

ENSG00000185291

Full Name:

interleukin 3 receptor, alpha (low affinity)

Calculated MW:

378 aa, 43 kDa

Purification Method:

Unknown

CloneNo.:

HI12H7

Excitation/Emission maximum wavelengths:

650 nm / 660 nm

Applications

Tested Applications:

FC

Species Specificity:

human

Background Information

CD123, also referred to as interleukin-3 receptor subunit alpha (IL-3R α), 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). CD123 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 CD123 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 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide and 0.5% BSA.

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

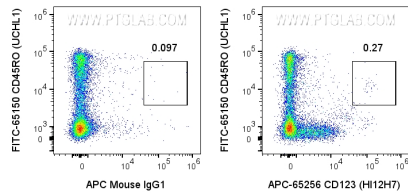
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Selected Validation Data



1x10⁶ human PBMCs were surface stained with FITC Anti-Human CD45RO (FITC-65150) and 5 ul APC Anti-Human IL3RA/CD123 (APC-65256, Clone: HI12H7) or APC Mouse IgG1 Isotype Control (APC-65124, Clone: MOPC-21). Cells were not fixed. Lymphocytes were gated.