

For Research Use Only

CoraLite® Plus 488 Anti-Human CD123 (HI12H7)



Catalog Number: CL488-65256

Basic Information

| | | |
|---------------------------------------|--|---|
| Catalog Number: CL488-65256 | GenBank Accession Number: BC035407 | Purification Method: Affinity purification |
| Size: 100tests, 5 µl/test | GeneID (NCBI): 3563 | CloneNo.: HI12H7 |
| Source: Mouse | ENSEMBL Gene ID: ENSG00000185291 | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Isotype: IgG1, kappa | Full Name: interleukin 3 receptor, alpha (low affinity) | |
| | Calculated MW: 378 aa, 43 kDa | |

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:

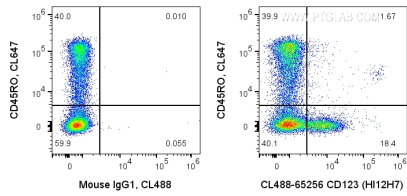
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1X10⁶ human PBMCs were surface co-stained with CL647 Anti-Human CD45RO and 5 ul CoraLite® Plus 488 Anti-Human CD123 (CL488-65256, Clone:HI 12H7), or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.