

For Research Use Only

# CoraLite® Plus 647 Anti-Human CD123 (HI12H7)



Catalog Number: CL647-65256

## Basic Information

<b>Catalog Number:</b> CL647-65256	<b>GenBank Accession Number:</b> BC035407	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100tests, 5 µl/test	<b>GeneID (NCBI):</b> 3563	<b>CloneNo.:</b> HI12H7
<b>Source:</b> Mouse	<b>ENSEMBL Gene ID:</b> ENSG00000185291	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG1, kappa	<b>Full Name:</b> interleukin 3 receptor, alpha (low affinity)	
	<b>Calculated MW:</b> 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 $\alpha$ ), 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:

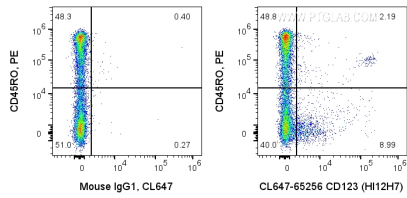
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1X10<sup>6</sup> human PBMCs were surface co-stained with PE Anti-Human CD45RO and 5 ul CoraLite® Plus 647 Anti-Human CD123 (CL647-65256, Clone:HI 12H7), or Mouse IgG1 Isotype Control. Cells were not fixed. Lymphocytes were gated.