

## PerCP anti-human CD123 Antibody

<b>Catalog# / Size</b>	306049 / 25 tests 306050 / 100 tests
<b>Clone</b>	6H6
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	IL-3R $\alpha$ , IL-3 Receptor alpha
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD123 is the 70 kD transmembrane $\alpha$ chain of the IL-3 receptor. Alone, CD123 binds IL-3 with low affinity; when CD123 associates with CDw131 (common $\beta$ chain), it binds IL-3 with high affinity. CD123 does not transduce intracellular signals upon binding IL-3 and requires the $\beta$ chain for this function. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, megakaryocytes, and some B cells.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human IL-3R $\alpha$ transfected COS cells.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ L per million cells in 100 $\mu$ L staining volume or 5 $\mu$ L per 100 $\mu$ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.
<b>Excitation Laser</b>	Blue Laser (488 nm)
<b>Application Notes</b>	Clone 6H6 does not inhibit IL-3 binding to low- or high-affinity IL-3Rs. Additional reported applications (for the relevant formats) include: Western blotting <sup>1</sup> , immunoprecipitation <sup>1</sup> , and immunohistochemical staining of acetone-fixed frozen sections <sup>2</sup> and also paraformaldehyde fixed paraffin embedded tissue <sup>7</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Sun Q, <i>et al.</i> 1996. <i>Blood</i> 87:83. (IP, WB)</li> <li>2. Herling M, <i>et al.</i> 2003. <i>Blood</i> 101:5007. (IHC)</li> <li>3. Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) <a href="#">PubMed</a></li> <li>4. Martin-Gayo E, <i>et al.</i> 2010. <i>Blood</i> 115:5366. <a href="#">PubMed</a></li> <li>5. Chen SC, <i>et al.</i> 2010. <i>Arch Dermatol Res.</i> 302:113. <a href="#">PubMed</a></li> <li>6. Liu Y, <i>et al.</i> 2012. <i>Food Chem Toxicol.</i> 50:1920. <a href="#">PubMed</a></li> <li>7. Peduzzi E, <i>et al.</i> 2007. <i>J. Invest. Dermatol.</i> 127:638. (IHC)</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2894455 (BioLegend Cat. No. 306049)

## Antigen Details

<b>Structure</b>	Ig superfamily, type I transmembrane glycoprotein, associates with CDw131, 70 kD
<b>Distribution</b>	Myeloid precursors, basophils, mast cells, macrophages, dendritic cells, megakaryocytes, subset of lymphocytes
<b>Function</b>	Hematopoietic cell proliferation, differentiation
<b>Ligand/Receptor</b>	IL-3
<b>Cell Type</b>	Basophils, Dendritic cells, Hematopoietic stem and progenitors, Lymphocytes, Macrophages, Mast cells, Megakaryocytes
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules, Cytokine/Chemokine Receptors
<b>Antigen References</b>	1. Miyajima A, <i>et al.</i> 1993. <i>Blood</i> 82:1960.
<b>Gene ID</b>	<a href="#">3563</a>

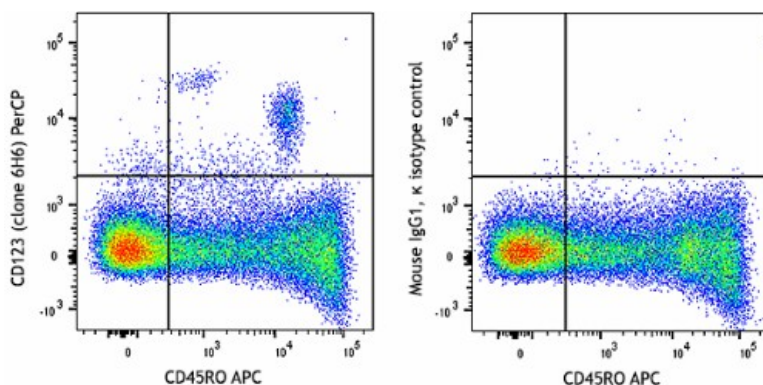
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Biotin anti-human CD123, PE anti-human CD123, Purified anti-human CD123, PE/Cyanine5 anti-human CD123, PE/Cyanine7 anti-human CD123, APC anti-human CD123, FITC anti-human CD123, PerCP/Cyanine5.5 anti-human CD123, Brilliant Violet 421™ anti-human CD123, Brilliant Violet 650™ anti-human CD123, Brilliant Violet 510™ anti-human CD123, Alexa Fluor® 647 anti-human CD123, Brilliant Violet 605™ anti-human CD123, Purified anti-human CD123 (Maxpar® Ready), Brilliant Violet 711™ anti-human CD123, Brilliant Violet 785™ anti-human CD123, PE/Dazzle™ 594 anti-human CD123, Alexa Fluor® 488 anti-human CD123, TotalSeq™-A0064 anti-human CD123, Alexa Fluor® 700 anti-human CD123, APC/Fire™ 750 anti-human CD123, Pacific Blue™ anti-human CD123, TotalSeq™-C0064 anti-human CD123, TotalSeq™-B0064 anti-human CD123, TotalSeq™-D0064 anti-human CD123, PerCP anti-human CD123, GMP PE/Cyanine7 anti-human CD123, APC/Fire™ 810 anti-human CD123 Antibody

## Product Data



Human peripheral blood lymphocytes were stained with CD45RO APC and CD123 (clone 6H6) PerCP (left) or mouse IgG1, κ PerCP isotype control (right).

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