

PE/Dazzle™ 594 anti-human CD123 Antibody

Catalog# / Size	306033 / 25 tests 306034 / 100 tests
Clone	6H6
Regulatory Status	RUO
Other Names	IL-3R α , IL-3 Receptor alpha
Isotype	Mouse IgG1, κ
Description	CD123 is the 70 kD transmembrane α chain of the IL-3 receptor. Alone, CD123 binds IL-3 with low affinity; when CD123 associates with CDw131 (common β chain), it binds IL-3 with high affinity. CD123 does not transduce intracellular signals upon binding IL-3 and requires the β chain for this function. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, megakaryocytes, and some B cells.

Product Details

Verified Reactivity	Human
Reported Reactivity	Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human IL-3R α transfected COS cells.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	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 ¹ , immunoprecipitation ¹ , and immunohistochemical staining of acetone-fixed frozen sections ² and also paraformaldehyde fixed paraffin embedded tissue ⁷ .
Application References	1. Sun Q, <i>et al.</i> 1996. <i>Blood</i> 87:83. (IP, WB) 2. Herling M, <i>et al.</i> 2003. <i>Blood</i> 101:5007. (IHC) 3. Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) PubMed 4. Martin-Gayo E, <i>et al.</i> 2010. <i>Blood</i> 115:5366. PubMed 5. Chen SC, <i>et al.</i> 2010. <i>Arch Dermatol Res.</i> 302:113. PubMed 6. Liu Y, <i>et al.</i> 2012. <i>Food Chem Toxicol.</i> 50:1920. PubMed 7. Peduzzi E, <i>et al.</i> 2007. <i>J. Invest. Dermatol.</i> 127:638. (IHC)
(PubMed link indicates BioLegend citation)	
Product Citations	

1. Montes de Oca M, *et al.* 2016. *Cell Rep.* 17:399-412. [PubMed](#)
2. Álvaro de Mingo Pulido *et al.* 2018. *Cancer cell.* 33(1):60-74. [PubMed](#)
3. Szabo PA, *et al.* 2021. *Immunity.* 54(4):797-814.e6. [PubMed](#)
4. Bourdely P, *et al.* 2020. *Immunity.* 53(2):335-352. [PubMed](#)
5. Mulder K, *et al.* 2021. *Immunity.* 54(8):1883-1900.e5. [PubMed](#)

RRID AB_2566449 (BioLegend Cat. No. 306033)
 AB_2566450 (BioLegend Cat. No. 306034)

Antigen Details

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

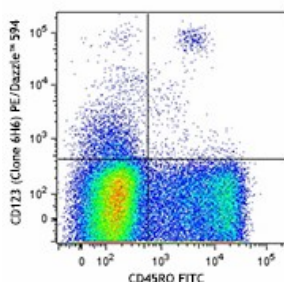
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

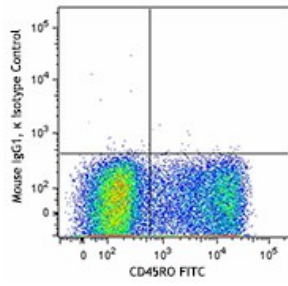
Other Formats

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 FITC and CD123 (clone 6H6) PE/Dazzle™ 594 (top) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (bottom).



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587