

## Biotin anti-human CD123 Antibody

<b>Catalog# / Size</b>	396722 / 100 µg
<b>Clone</b>	S18016F
<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>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Hu CD123 transfectants
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <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 $\leq 0.25$ µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>RRID</b>	AB_2924604 (BioLegend Cat. No. 396722)

### Antigen Details

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<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, *et al.* 1993. *Blood* 82:1960.

Gene ID [3563](#)

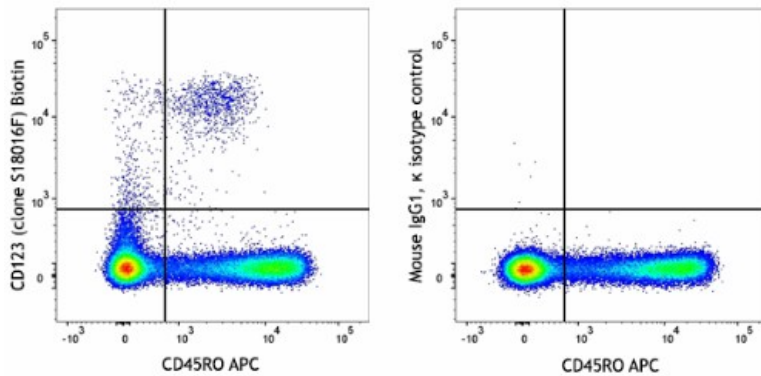
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

PE anti-human CD123, Purified anti-human CD123, KIRAVIA Blue 520™ anti-human CD123, PE/Dazzle™ 594 anti-human CD123, APC anti-human CD123, APC/Fire™ 750 anti-human CD123 Antibody, PE/Cyanine7 anti-human CD123 Antibody, PerCP/Cyanine5.5 anti-human CD123 Antibody, Spark NIR™ 685 anti-human CD123, Spark Violet™ 423 anti-human CD123 Antibody, Biotin anti-human CD123

## Product Data



Human peripheral blood lymphocytes stained with anti-human CD45RO APC and biotinylated anti-human CD123 (clone S18016F) Biotin (left) or biotinylated mouse IgG1, κ isotype control (right) followed by PE Streptavidin.

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