

Spark Violet™ 423 anti-human CD123 Antibody

Catalog# / Size	396719 / 25 tests
Clone	S18016F
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
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Hu CD123 transfectants
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 Spark Violet™ 423 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. It is recommended that the reagent be titrated for optimal performance for each application. * Spark Violet™ 423 has a maximum excitation of 400 nm and a maximum emission of 415 nm.
Excitation Laser	Violet Laser (405 nm)
RRID	AB_2910457 (BioLegend Cat. No. 396719)

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

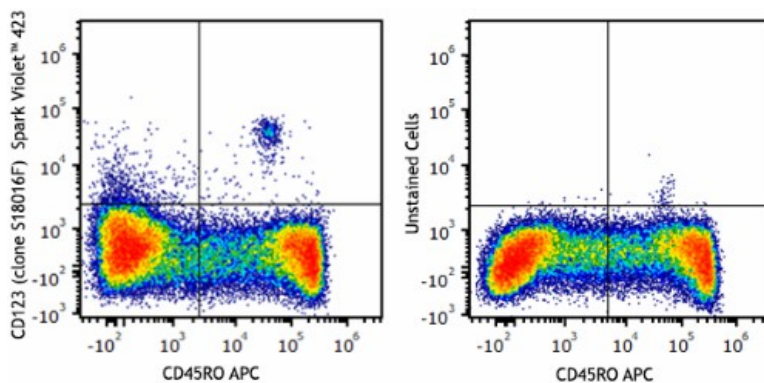
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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 were stained with anti-human CD45RO APC and anti-human CD123 (clone S18016F) Spark Violet™ 423 (left) or CD45RO APC only (right).

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