

Anti-Human CD123 (IL-3R α) Antibody, Clone 6H6, Biotin



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TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM

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Antibodies

Mouse monoclonal IgG1 antibody
against human, rhesus, sooty
mangabey CD123 (IL-3R α), biotin-
conjugated

Catalog #60110BT
#60110BT.1

100 μ g 0.5 mg/mL
25 μ g 0.5 mg/mL

Product Description

The 6H6 antibody reacts with human CD123 (IL-3 receptor subunit α), an ~70 kDa type I transmembrane glycoprotein belonging to the type I cytokine receptor family (type 5 subfamily) and the immunoglobulin (Ig) superfamily. CD123 constitutes the ligand-binding α chain of the heterodimeric IL-3 receptor. CD123 binds IL-3 with low affinity per se, but when associated with CD131 (the signal-transducing β chain of the receptor), high-affinity binding of IL-3 is observed. CD123 is expressed by hematopoietic progenitor cells, endothelial cells, basophils, eosinophils, mast cells, monocytes, macrophages, dendritic cells, megakaryocytes, a subset of B cells, and by neutrophils if cultured in the presence of granulocyte-macrophage colony-stimulating factor (GM-CSF). IL-3 binding to CD123 stimulates proliferation, differentiation, and viability of hematopoietic cells. CD123 is highly expressed in malignancies such as acute leukemia. The 6H6 antibody does not inhibit binding of IL-3 to either CD123 or the IL-3 receptor.

Target Antigen Name:	CD123 (IL-3R α)
Alternative Names:	hIL-3Ra, IL3R, IL3RAX, IL3RAY, IL3RX, IL3RY, IL-3Ra, IL-3 receptor alpha SP2 isoform, Interleukin-3 Receptor alpha, MGC34174
Gene ID:	3563
Species Reactivity:	Human, Rhesus, Sooty Mangabey
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	6H6
Isotype:	IgG1, kappa
Immunogen:	COS cells transfected with a cDNA encoding the human IL-3R α chain
Conjugate:	Biotin

Applications

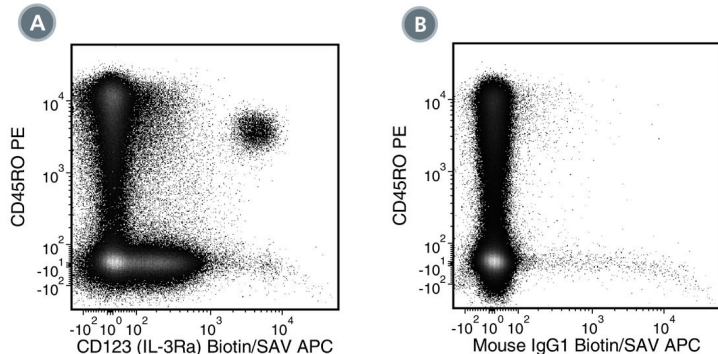
Verified:	FC
Reported:	FC, ICC, IF, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Plasmacytoid DC Enrichment Kit (Catalog #19062) and EasySep™ Human Basophil Enrichment Kit (Catalog #19069).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Aqueous buffer containing 0.09% sodium azide, may contain carrier protein/stabilizer
Purification:	The antibody was purified by column chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	For flow cytometry, the suggested use of this antibody is \leq 0.25 μ g per 1×10^6 cells in 100 μ L. It is recommended that the antibody be titrated for optimal performance for each application.

Data



(A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs; gated on lymphocytes) labeled with Anti-Human CD123 (IL-3R α) Antibody, Clone 6H6, Biotin, followed by streptavidin (SAV) APC and Anti-Human CD45RO Antibody, Clone UCHL1, PE (Catalog #60097PE).

(B) Flow cytometry analysis of human PBMCs (gated on lymphocytes) labeled with Mouse IgG1, kappa Isotype Control Antibody, Clone MOPC-21, Biotin (Catalog #60070BT), followed by SAV APC and Anti-Human CD45RO Antibody, Clone UCHL1, PE.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

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