

30-2885: Anti-Human CD123 PerCP Mab (Clone:6H6)

Clonality :	Monoclonal
Clone Name :	6H6
Application :	FACS
Reactivity :	Human
Gene :	IL3RA
Gene ID :	3563
Uniprot ID :	P26951
Alternative Name :	IL3RA, MGC34174, hIL-3Ra
Isotype :	Mouse IgG1
Immunogen Information :	IL3 receptor alpha chain expressed on the surface of transiently transfected COS cells

Description

Specificity : The mouse monoclonal antibody 6H6 recognizes an extracellular epitope of CD123 (interleukin 3 receptor alpha), a 60-70 kDa transmembrane protein expressed by myeloid precursors, megakaryocytes, macrophages, dendritic cells, mast cells, basophils, and some B cells. This antibody does not inhibit IL-3 binding to its receptor.

CD123 is the alpha chain of interleukin 3 receptor (IL-3R alpha). This subunit heterodimerizes with the interleukin 3 receptor beta chain (CD131), which is shared with other receptors. CD123 interacts with IL-3 specifically, but with low affinity, and association with the beta subunit confers high affinity binding to the receptor heterodimer. Both chains are required for signaling, but receptor activation and signal transduction depend on IL-3 binding to CD123 as the initial step.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with activated Peridinin-Chlorophyll Protein (PerCP) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

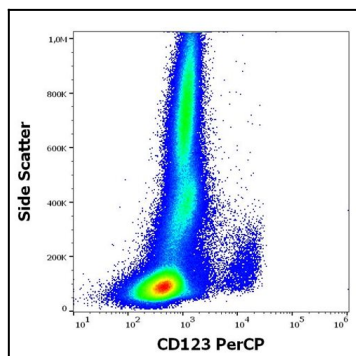


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD123 (6H6) PerCP antibody (10 μ l reagent / 100 μ l of peripheral whole blood).

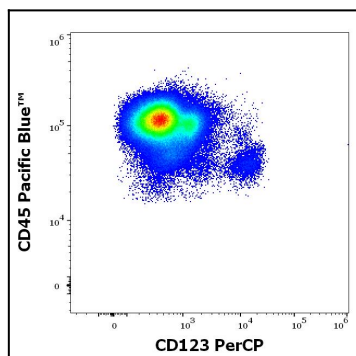


Figure 2: Flow cytometry multicolor surface staining pattern of human mononuclear cells stained using anti-human CD123 (6H6) PerCP antibody (10 μ l reagent / 100 μ l of peripheral whole blood) and anti-human CD45 (MEM-28) Pacific Blue™ antibody (4 μ l reagent / 100 μ l of peripheral whole blood).

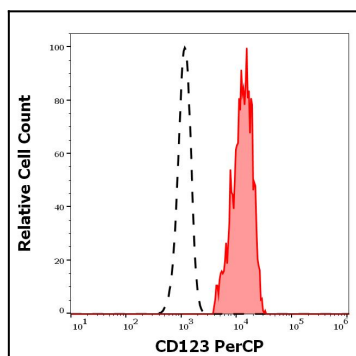


Figure 3: Separation of human CD123 positive CD45dim leukocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD123 (6H6) PerCP antibody (10 μ l reagent / 100 μ l of peripheral whole blood).