

TECHNICAL DATA SHEET

CyFlow™ CD123 Purified Anti-Hu; Clone 6H6

REF CL344110

**For Research Use Only.
Not for use in diagnostic or therapeutic procedures.**

Specifications

| | |
|------------------------------------|---|
| Antigen | CD123 |
| Alternative Names | IL-3Ra, IL3R |
| Clone | 6H6 |
| Clonality | monoclonal |
| Format | Purified |
| Host / Isotype | Mouse / IgG1 |
| Species Reactivity | Human |
| Negative Species Reactivity | — |
| Quantity [Concentration] | 0.1 mg [1 mg/ml] |
| Immunogen | IL3 receptor α chain expressed on the surface of transiently transfected COS cells |

Contact Information:

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Specificity

The mouse monoclonal antibody 6H6 recognizes CD123 antigen, 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.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (frozen sections)

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

| | |
|------------------|---|
| Storage | Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze. |
| Stability | Do not use after expiration date stamped on vial label. |

Background Information

CD123 is the α chain of interleukin 3 receptor (IL-3R α). This subunit heterodimerizes with the interleukin 3 receptor β chain (CD131), which is shared with other receptors. CD123 interacts with IL-3 specifically, but with low affinity, and association with the β 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.

References

- Sun Q, Woodcock JM, Rapoport A, Stomski FC, Korpelainen EI, Bagley CJ, Goodall GJ, Smith WB, Gamble JR, Vadas MA, Lopez AF: Monoclonal antibody 7G3 recognizes the N-terminal domain of the human interleukin-3 (IL-3) receptor alpha-chain and functions as a specific IL-3 receptor antagonist. Blood. 1996 Jan 1; 87(1):83-92. < PMID: 8547680 >

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- Herling M, Teitell MA, Shen RR, Medeiros LJ, Jones D: TCL1 expression in plasmacytoid dendritic cells (DC2s) and the related CD4+ CD56+ blastic tumors of skin. Blood. 2003 Jun 15; 101(12):5007-9. < PMID: 12576313 >
- Martín-Gayo E, Sierra-Filardi E, Corbí AL, Toribio ML: Plasmacytoid dendritic cells resident in human thymus drive natural Treg cell development. Blood. 2010 Jul 1; 115(26):5366-75. < PMID: 20357241 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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