EXBIO Antibodies

PRODUCT DATA SHEET

T7-700-T100

Monoclonal Antibody to CD123 PE-Cy™7 conjugated (100 tests)

Clone: 6H6

Isotype: Mouse IgG1

Specificity: The mouse monoclonal antibody 6H6 recognizes 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.

Regulatory Status: RUO

Immunogen: IL3 receptor alpha chain expressed on the surface of transiently transfected COS cells

Species Reactivity: Human

Preparation: The purified antibody is conjugated with tandem dye PE-Cy™7 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

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

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension.
The content of a vial (0.4 ml) is sufficient for 100 tests.

Expiration: See vial label

Lot Number: See vial label

Background: 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.

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.
*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.
*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.

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