SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human CD123

Catalog # / Size: 2130170 / 100 tests
2130165 / 25 tests

Clone: 6H6

Isotype: Mouse IgG1, κ

Immunogen: Human IL-3Rα transfected COS cells.

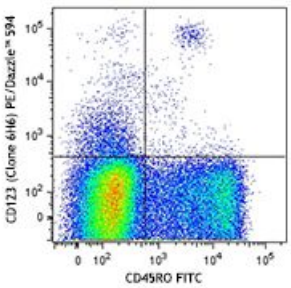
Reactivity: Human, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: VI CD80.1

Concentration: Lot-specific



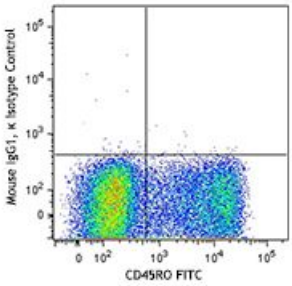
Human peripheral blood lymphocytes were stained with CD45RO FITC and CD123 (clone 6H6) PE/Dazzle™ 594 (top) or mouse IgG1, κPE/Dazzle™ 594 isotype control (bottom).

Applications:

Applications: Flow Cytometry

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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



Application Notes: Clone 6H6 does not inhibit IL-3 binding to low- or high-affinity IL-3Rs. Additional reported applications (for the relevant formats) include: Western blotting1, immunoprecipitation1, and immunohistochemical staining of acetone-fixed frozen sections[2] and also paraformaldehyde fixed paraffin embedded tissue[7].

Application References:

1. Sun Q, *et al.* 1996. *Blood* 87:83. (IP, WB)
2. Herling M, *et al.* 2003. *Blood* 101:5007. (IHC)
3. Charles N, *et al.* 2010. *Nat. Med.* 16:701. (FC) PubMed
4. Martin-Gayo E, *et al.* 2010. *Blood* 115:5366. PubMed
5. Chen SC, *et al.* 2010. *Arch Dermatol Res.* 302:113. PubMed
6. Liu Y, *et al.* 2012. *Food Chem Toxicol.* 50:1920. PubMed
7. Peduzzi E, *et al.* 2007. *J. Invest. Dermatol.* 127:638. (IHC)

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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.

Antigen References:

1. Miyajima A, *et al.* 1993. *Blood* 82:1960.

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