

**PE/Cy7 anti-human CD123**

**Catalog # / Size:** 2130050 / 100 tests  
2130045 / 25 tests

**Clone:** 6H6

**Isotype:** Mouse IgG1,  $\kappa$

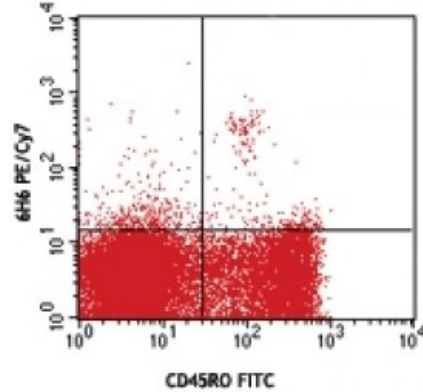
**Immunogen:** Human IL-3R $\alpha$  transfected COS cells.

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood lymphocytes stained with CD45RO FITC and 6H6 PE/Cy7

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**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 blotting<sup>1</sup>, immunoprecipitation<sup>1</sup>, and immunohistochemical staining of acetone-fixed frozen sections<sup>2</sup>.

**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. Wieland SF, *et al.* 2014. *J. Virol.* 88:752. [PubMed](#)
6. Kanakoudi-Tsakalidou F, *et al.* 2014. *Lupus.* 23:305. [PubMed](#)
7. Greer AM, *et al.* 2014. *PLoS One.* 9:99084. [PubMed](#)
8. Kivisakk P, *et al.* 2014. *PLoS One.* 9:103716. [PubMed](#)
9. Jin JO, *et al.* 2014. *PLoS One.* 9:104753. [PubMed](#)
10. Royle CM, *et al.* 2014. *J Immunol.* 193:3538. [PubMed](#)

**Description:** CD123 is the 70 kD transmembrane  $\alpha$  chain of the IL-3 receptor. Alone, CD123 binds IL-3 with low affinity; when CD123 associates with CDw131 (common  $\beta$  chain), it binds IL-3 with high affinity. CD123 does not transduce intracellular signals upon binding IL-3 and requires the  $\beta$  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.