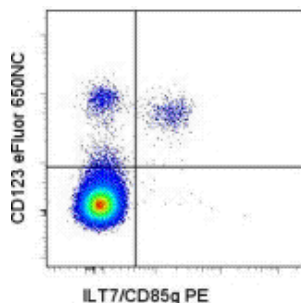


## Anti-Human CD123 eFluor® 650NC

**Catalog Number:** 95-1239

**Also Known As:** Interleukin-3 Receptor alpha, IL-3Ra

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD85g (ILT7) PE (cat. 12-5179) and Anti-Human CD123 eFluor® 650NC. Cells in the lymphocyte and monocyte gates were used for analysis.

### Product Information

**Contents:** Anti-Human CD123 eFluor® 650NC

**REF** **Catalog Number:** 95-1239

**Clone:** 6H6

**Concentration:** 5 uL

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.

**LOT** **Batch Code:** Refer to Vial

**Use By:** Refer to Vial

**Caution, contains Azide**

### Description

The 6H6 monoclonal antibody reacts with human CD123, the  $\alpha$  chain of the IL-3 receptor. This 60-70 kDa transmembrane protein binds to IL-3 with low affinity by itself, and when associated with CD131 (common beta chain) binds IL-3 with high affinity. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, and megakaryocytes.

### Applications Reported

This 6H6 antibody has been reported for use in Flow Cytometric Analysis.

### Applications Tested

This 6H6 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

The isotype control eFluor® 650NC mouse IgG1 (cat. 95-4714) should be used at 5 uL/test.

**Laser/Filter Recommendation:** When using eFluor 650NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 630 LP dichroic mirror with the 660/40 bandpass filter. The eFluor 650NC can be minimally excited off of the 633 nm laser, and because its peak emission is 650nm, it will require some compensation out of the APC detector.

**Fixation Recommendation:** When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 uL. (100 uL cells + 100 uL IC Fixation Buffer (cat. 00-8222)) and the exposure time at 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers about fixation and other questions, please refer to Nanocrystal Frequently Asked Questions or contact eBioscience Technical Support.

### References

Herling, M., M. Teitell, R. Shen, L. Medeiros, and D. Jones. 2003. TCL1 expression in plasmacytoid dendritic cells (DC2s) and the related CD4+CD56+ blastic tumors of skin. *Blood*. 101: 5007-5009.

Jaye, D.L., C.M. Geigerman, et al. 2006. Expression of the plasmacytoid dendritic cell marker BDCA-2 supports a spectrum of maturation among CD4+CD56+ hematodermic neoplasms. *Mod Pathol*. 19(12): 1555-62. (IHC paraffin PubMed)

Peduzzi, E., C. Groeper, et al. 2007. Local activation of the innate immune system in Buruli Ulcer lesions. J Invest Dermatol. 127(3) :638-45. (IHC paraffin PubMed)

Assaf C., S. Gellrich, et al. 2007. CD56 lymphoproliferative disorders of the skin: A multicenter study of the cutaneous lymphoma project group of the european organization for research and treatment of cancer (EORTC). J Clin Pathol. 60(9): 981-9. (IHC frozen PubMed)

Xu. W., B. He, et al. 2007. Epithelial cells trigger frontline immunoglobulin class switching through a pathway regulated by the inhibitor SLP1. Nature Immunol. 8(3): 294-303. (IHC frozen PubMed)

#### **Related Products**

00-4222 Flow Cytometry Staining Buffer

12-5179 Anti-Human CD85g (ILT7) PE (eBio17G10.2 (17G10.2))

45-5179 Anti-Human CD85g (ILT7) PerCP-Cy5.5 (eBio17G10.2 (17G10.2))

48-9952 Anti-Human HLA-DR eFluor® 450 (L243)

95-4714 Mouse IgG1 K Isotype Control eFluor® 650NC (P3.6.2.8.1)

#### **Legal**

Under patent number: US 7,939,170 and additional pending patent application(s)

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