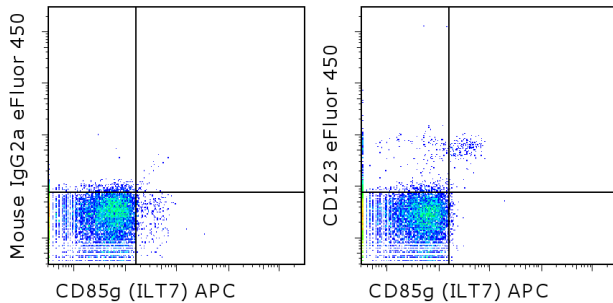


Anti-Human/Non-Human Primate CD123 eFluor[®] 450

Catalog Number: 48-1238

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) APC (cat. 17-5179) and Mouse IgG2a K Isotype Control eFluor[®] 450 (cat. 48-4724) (left) or Anti-Human/Non-Human Primate CD123 eFluor[®] 450 (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Non-Human Primate CD123 eFluor[®] 450

REF **Catalog Number:** 48-1238

Clone: 7G3

Concentration: 5 μ L (0.5 μ g)/test

Host/Isotype: Mouse IgG2a, kappa

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

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

This 7G3 monoclonal antibody reacts with human and non-human primate 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 (the common beta chain) binds IL-3 with high affinity. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, and megakaryocytes. In addition, this molecule can be detected on CD34+CD38- hematopoietic stem cells and acute myeloid leukemic (AML) cells.

The 7G3 antibody has been demonstrated to inhibit IL-3-mediated cell proliferation and homing of AML leukemic stem cells. Crossblocking studies suggest that 7G3 recognizes a different epitope from 6H6.

The 7G3 antibody has been reported to crossreact to chimpanzee, cynomolgous monkey, olive baboon, pigtailed macaque, rhesus macaque, and sooty mangabey.

Applications Reported

This 7G3 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 7G3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 μ L (0.5 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

eFluor[®] 450 is a replacement for Pacific Blue[®]. eFluor[®] 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Van Brussel I, Van Vré EA, De Meyer GR, Vrints CJ, Bosmans JM, Bult H. Expression of dendritic cell markers CD11c/BDCA-1 and CD123/BDCA-2 in coronary artery disease upon activation in whole blood. J Immunol Methods.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com

Anti-Human/Non-Human Primate CD123 eFluor® 450

Catalog Number: 48-1238

Also known as: Interleukin-3 Receptor alpha, IL-3Ra

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

2010 Oct 31;362(1-2):168-75.(7G3, FC)

Jin L, Lee EM, Ramshaw HS, Busfield SJ, Peoppl AG, Wilkinson L, Guthridge MA, Thomas D, Barry EF, Boyd A, Gearing DP, Vairo G, Lopez AF, Dick JE, Lock RB. Monoclonal antibody-mediated targeting of CD123, IL-3 receptor alpha chain, eliminates human acute myeloid leukemic stem cells. *Cell Stem Cell*. 2009 Jul 2;5(1):31-42. (7G3, FG)

Brown KN, Barratt-Boyes SM. Surface phenotype and rapid quantification of blood dendritic cell subsets in the rhesus macaque. *J Med Primatol*. 2009 Aug;38(4):272-8. (7G3, FC, rhesus)

Brown KN, Trichel A, Barratt-Boyes SM. Parallel loss of myeloid and plasmacytoid dendritic cells from blood and lymphoid tissue in simian AIDS. *J Immunol*. 2007 Jun 1;178(11):6958-67. (7G3, FC, ICC, rhesus)

Willmann K, Dunne JF. A flow cytometric immune function assay for human peripheral blood dendritic cells. *J Leukoc Biol*. 2000 Apr;67(4):536-44.

Related Products

00-4222 Flow Cytometry Staining Buffer

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

48-4724 Mouse IgG2a K Isotype Control eFluor® 450

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com