

CD123 Monoclonal Antibody (7G3), eFluor™ 450, eBioscience™

Product Details

Size	100 Tests
Species Reactivity	Human, Non-human primate
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	7G3
Conjugate	eFluor™ 450
Excitation/Emission Max	405/445 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11151323

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	1 Publication

Product Specific Information

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.

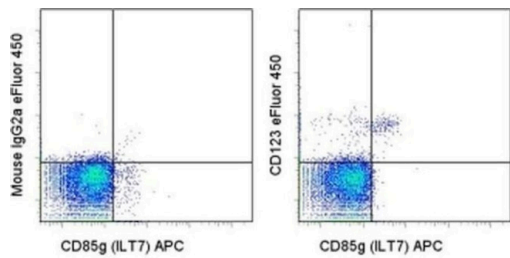
Applications Tested: This 7G3 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD123 Monoclonal Antibody (7G3), eFluor™ 450, eBioscience™



CD123 Antibody (48-1238-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD85g (ILT7) APC (Product # 17-5179-42) and Mouse IgG2a K Isotype Control eFluor® 450 (Product # 48-4724-82) (left) or Anti-Human/Non-Human Primate CD123 eFluor® 450 (right). Total viable cells were used for analysis.

1 Reference

Flow Cytometry (1)

Stem cell research & therapy	Year 2018
Improving hematopoietic recovery through modeling and modulation of the mesenchymal stromal cell secretome.	Species Human
"Published figure using CD123 monoclonal antibody (Product # 48-1238-42) in Flow Cytometry"	
Authors: Liu FD,Tam K,Pishesha N,Poon Z, Van Vliet KJ	

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