CD32 Monoclonal Antibody (6C4 (CD32)), PE-Cyanine7, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	6C4 (CD32)
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_2573340

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 Publications

Product Specific Information

Description: This 6C4 monoclonal antibody reacts with human CD32 (also known as Fc gammaRII). This antibody recognizes two isoforms of the receptor, Fc gammaRIIA and Fc gammaRIIB. These 40-kDa polymorphic transmembrane glycoproteins are expressed on B cells, granulocytes, monocytes, macrophages, and platelets. Moreover, these receptors are detected on natural killer cells. CD32 enables interaction between Fc gammaRII-expressing cells and opsonized antigen or IgG-containing immune complexes. Both receptors exhibit low affinity towards IgG and play a role in inflammation and autoimmune disease. This clone has been reported to inhibit Ig binding in a rosette blocking assay.

Applications Reported: This 6C4 (CD32) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 6C4 (CD32) antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.25 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 10^5 to 10^8 cells/test.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

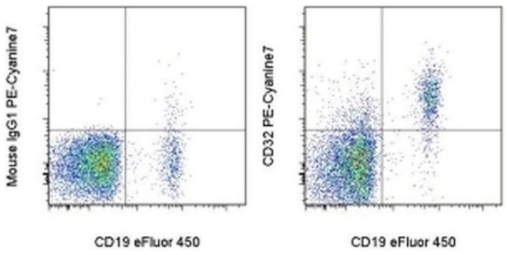
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on

brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD32 Monoclonal Antibody (6C4 (CD32)), PE-Cyanine7, eBioscience™



CD32 Antibody (25-0329-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD19 eFluor® 450 (Product # 48-0199-42) and Mouse IgG1 K Isotype Control PE-Cyanine7 (Product # 25-4714-80) (left) or Anti-Human CD32 PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Cytometry. Part A : the journal of the International Society for Analytical Cytology

A flow cytometry-based assay to determine the phagocytic activity of both clinical and nonclinical antibody samples against Chlamydia trachomatis.

"25-0329 was used in Flow cytometry/Cell sorting to developed a simple and rapid flow cytometry based assay to measure the capacity of antibodies to mediate Fc-receptor dependent phagocytosis."

Authors: Grasse M,Rosenkrands I,Olsen A,Follmann F,Dietrich J

Year
2018

Species
Human

Journal of neurovirology

Immortalization of primary microglia: a new platform to study HIV regulation in the central nervous system.

"Published figure using CD32 monoclonal antibody (Product # 25-0329-42) in Flow Cytometry"

Authors: Garcia-Mesa Y,Jay TR,Checkley MA,Luttge B,Dobrowolski C,Valadkhan S,Landreth GE,Karn J,Alvarez-Carbonell D

Year
2017