

CD33 Monoclonal Antibody (HIM3-4), PE-Cyanine5, 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-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIM3-4
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_1724049

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	7 Publications

Product Specific Information

Description: The HIM3-4 monoclonal antibody reacts with human CD33, a 67 kDa member of the sialoadhesion family. CD33 is expressed by myelomonocytic precursors, monocytes, mast cells, and granulocytes. Hematopoietic stem cells and lymphocytes do not express this antigen. CD33 plays a role in sialic-acid dependent cell adhesion.

Applications Reported: The HIM3-4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HIM3-4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1 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.

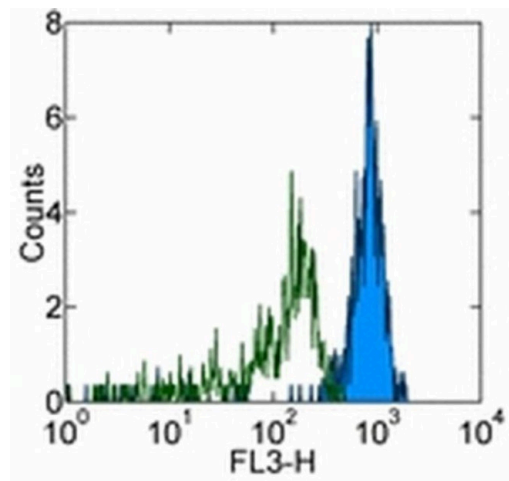
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL 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:** 667 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD33 Monoclonal Antibody (HIM3-4), PE-Cyanine5, eBioscience™



CD33 Antibody (15-0339-42) in Flow
Staining of normal human peripheral blood cells with PE-Cyanine5 Mouse IgG1 K Isotype Control (Product # 15-4714-81) (open histogram) or Anti-Human CD33 PE-Cyanine5 (filled histogram). Cells in the monocyte gate were used for analysis.

[View more figures on thermofisher.cn](#)

7 References

Flow Cytometry (7)

Investigative ophthalmology & visual science	Year 2023
Local Myeloid-Derived Suppressor Cells Impair Progression of Experimental Autoimmune Uveitis by Alleviating Oxidative Stress and Inflammation.	
"Published figure using CD33 monoclonal antibody (Product # 15-0339-42) in Flow Cytometry"	
Authors: Lee JY, Kim S, Sohn HJ, Kim CH, Kim TG, Lee HS	
Journal of nanobiotechnology	Year 2023
Mesenchymal stem cells, as glioma exosomal immunosuppressive signal multipliers, enhance MDSCs immunosuppressive activity through the miR-21/SP1/DNMT1 positive feedback loop.	
"Published figure using CD33 monoclonal antibody (Product # 15-0339-42) in Flow Cytometry"	
Authors: Qiu W, Guo Q, Guo X, Wang C, Li B, Qi Y, Wang S, Zhao R, Han X, Du H, Zhao S, Pan Z, Fan Y, Wang Q, Gao Z, Li G, Xue H	

[View more Flow references on thermofisher.cn](#)

More applications with references on thermofisher.cn

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