

CD33 Monoclonal Antibody (HIM3-4), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIM3-4
Conjugate	PE
Excitation/Emission Max	565/576 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_10855031

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	9 Publications

Product Specific Information

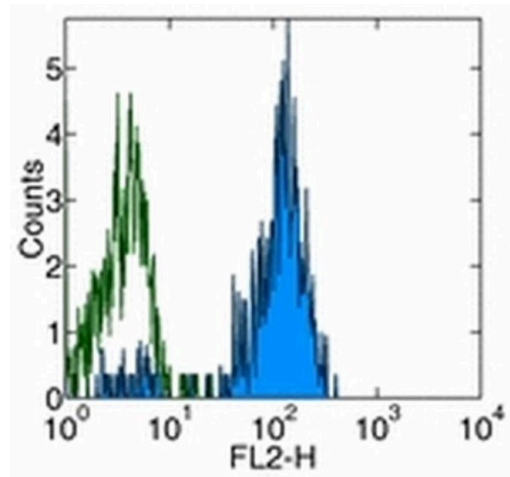
Description: The HIM3-4 monoclonal antibody reacts with human CD33, a 67 kDa member of the sialoadhesion family. CD33 is expressed by myelomonocytic precursors, monocytes, mast cells, and granulocytes. Hematopoietic stem cells and lymphocytes do not express this antigen. CD33 plays a role in sialic-acid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

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.



CD33 Antibody (12-0339-42) in Flow
Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (open histogram) and Anti-Human CD33 PE (filled hisotgram). Cells in the monocyte population were used for analysis.

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📖 9 References

Flow Cytometry (9)

<p>Annals of translational medicine</p> <p>Human serum albumin promotes self-renewal and expansion of umbilical cord blood CD34⁺ hematopoietic stem/progenitor cells.</p> <p>"Published figure using CD33 monoclonal antibody (Product # 12-0339-42) in Flow Cytometry"</p> <p>Authors: Hua J,Jiao T,Qiao Y,Zhang S,Xiao T,Zhang Y,Yan J</p>	<p>Year</p> <p>2023</p>
<p>Cancer cell</p> <p>Targeting FTO Suppresses Cancer Stem Cell Maintenance and Immune Evasion.</p> <p>"12-0339-42 was used in Flow Cytometry to demonstrate if fat mass and obesity-associated protein plays critical roles in cancer stem cell self-renewal and immune evasion."</p> <p>Authors: Su R,Dong L,Li Y,Gao M,Han L,Wunderlich M,Deng X,Li H,Huang Y,Gao L,Li C,Zhao Z,Robinson S,Tan B,Qing Y,Qin X,Prince E,Xie J,Qin H,Li W,Shen C,Sun J,Kulkarni P,Weng H,Huang H,Chen Z,Zhang B,Wu X,Olsen MJ,Müschen M,Marcucci G,Salgia R,Li L,Fathi AT,Li Z,Mulloy JC,Wei M,Horne D,Chen J</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Human</p>

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