

CD33 Monoclonal Antibody (HIM3-4), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIM3-4
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 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_2688249

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	1 Publication

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: This HIM3-4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HIM3-4 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may 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 10⁵ to 10⁸ cells/test.

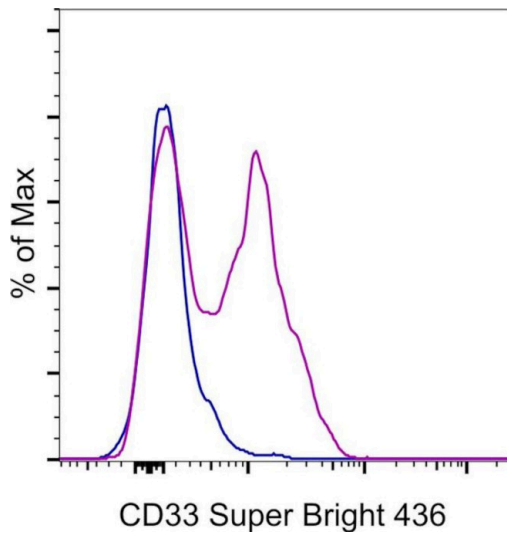
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD33 Monoclonal Antibody (HIM3-4), Super Bright™ 436, eBioscience™



CD33 Antibody (62-0339-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 436 (Product # 62-4714-82) (blue histogram) or CD33 Monoclonal Antibody, Super Bright 436 (purple histogram). Total viable cells were used for analysis.

2 References

Immunocytochemistry (1)

Cell

Genetic Inactivation of CD33 in Hematopoietic Stem Cells to Enable CAR T Cell Immunotherapy for Acute Myeloid Leukemia.

Year
2018

"Published figure using CD33 monoclonal antibody (Product # 62-0339-42) in Immunocytochemistry"

Authors: Kim MY, Yu KR, Kenderian SS, Ruella M, Chen S, Shin TH, Aljanahi AA, Schreeder D, Klichinsky M, Shestova O, Kozlowski MS, Cummins KD, Shan X, Shestov M, Bagg A, Morrissette JJD, Sekhri P, Lazzarotto CR, Calvo KR, Kuhns DB, Donahue RE, Behbehani GK, Tsai SQ, Dunbar CE, Gill S

Flow Cytometry (1)

Annals of translational medicine

Human serum albumin promotes self-renewal and expansion of umbilical cord blood CD34⁺ hematopoietic stem/progenitor cells.

Year
2023

"Published figure using CD33 monoclonal antibody (Product # 62-0339-42) in Flow Cytometry"

Authors: Hua J, Jiao T, Qiao Y, Zhang S, Xiao T, Zhang Y, Yan J

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