CD33 Monoclonal Antibody (WM-53 (WM53)), Super Bright™ 600, 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™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	WM-53 (WM53)
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2762540

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

Product Specific Information

Description: The WM-53 monoclonal antibody reacts with human CD33, also known as GP67 and P67, a 67 kDa type I transmembrane glycoprotein that is a member of the Siglec (sialic acid-binding Ig superfamily lectin) family. It is highly specific to the hematopoietic compartment and is expressed on monocytes, activated T cells, granulocytes, myeloid progenitors, and mast cells.

Applications Reported: This wm-53 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This wm-53 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 10^5 to 10^8 cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. 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.

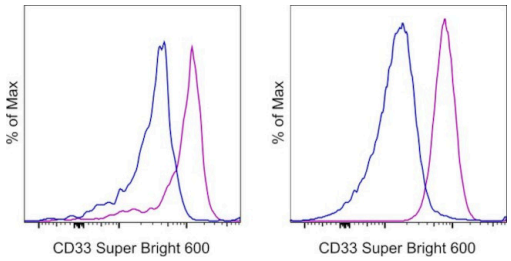
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

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

Product Images For CD33 Monoclonal Antibody (WM-53 (WM53)), Super Bright™ 600, eBioscience™



CD33 Antibody (63-0338-42) in Flow
Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 600 (Product # 63-4714-82) (blue histogram) or CD33 Monoclonal Antibody, Super Bright 600 (purple histogram). Cells in the monocyte (left) and granulocyte (right) gates were used for analysis.

View more figures on thermofisher.com

5 References

Flow Cytometry (5)

iScience

Myeloid-intrinsic cell cycle-related kinase drives immunosuppression to promote tumorigenesis.

"Published figure using CD33 monoclonal antibody (Product # 63-0338-42) in Flow Cytometry"

Authors: Zhou J,Wang H,Shu T,Wang J,Yang W,Li J,Ding L,Liu M,Sun H,Wong J,Lai PB,Tsang SW,Ward SE,Chow KL, Sung JJ,Sze-Lok Cheng A

Year
2023

International journal of molecular sciences

Celiac Disease Defined by Over-Sensitivity to Gliadin Activation and Superior Antigen Presentation of Dendritic Cells.

"Published figure using CD33 monoclonal antibody (Product # 63-0338-42) in Flow Cytometry"

Authors: Hudec M,Riegerová K,Pala J,Kútna V,erná M,O Leary VB

Year
2021

View more Flow references on thermofisher.com

More applications with references on thermofisher.com