

# CD33 Monoclonal Antibody (WM-53 (WM53)), Brilliant Violet™ 711, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Brilliant Violet™ 711, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	WM-53 (WM53)
Conjugate	Brilliant Violet™ 711
Excitation/Emission Max	406/711 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_2925563

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

## 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 (WM53) antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This WM-53 (WM53) antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Brilliant Violet™ 711 (BV711) is a tandem dye that emits at 713 nm and is intended for use on cytometers equipped with a violet (405 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

light.

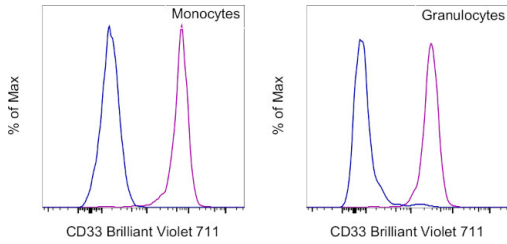
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone-specific performance should be determined empirically.

Our internal testing suggests that Brilliant Violet™ 711 (BV711) is not compatible with methanol-based fixation.

Excitation: 407 nm; Emission: 713 nm; Laser: Violet Laser.

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## Product Images For CD33 Monoclonal Antibody (WM-53 (WM53)), Brilliant Violet™ 711, eBioscience™



### CD33 Antibody (407-0338-41) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Brilliant Violet 711 (Product # 407-4714-81) (blue histogram) or CD33 Monoclonal Antibody, Brilliant Violet 711 (purple histogram). Viable cells in the monocyte (left) or granulocyte (right) gate were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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