Brilliant Violet 510™ anti-human CD33

Catalog # / Size: 2117110 / 100 tests

2117105 / 25 tests

Clone: WM53

Isotype: Mouse IgG1, κ

Immunogen: Human myeloid leukaemia cells.

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and

unconjugated antibody.

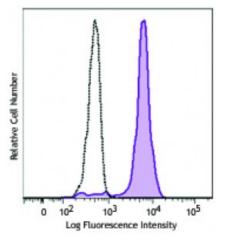
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and BSA

(origin USA).

Workshop Number: IV M-505

Concentration: Lot-specific



Human peripheral blood monocytes were stained with CD33 (clone WM53) Brilliant Violet 510™ (filled histogram) or mouse IgG1, κ Brilliant Violet 510™ isotype control

(open histogram).

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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Application Notes:

Additional reported applications (for the relevant formats) include: immunoprecipitation, Western blotting3, induction of cytokine production3, and immunofluorescence4. The LEAF $^{\text{\tiny TM}}$ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303410).

Application References:

- 1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press. New York.
- 2. Favaloro E, et al. 1988. Br. J. Haematol. 69:163.
- 3. Garnache-Ottou F, et al. 2005. Blood 105:1256. (WB)

Description: CD33 is a 67 kD type I transmembrane glycoprotein also known as Siglec-3, gp67,

and p67. It is a sialoadhesion immunoglobulin superfamily member expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells. CD33 is absent on normal platelets, lymphocytes, erythrocytes and hematopoietic stem cells. CD33 functions as a sialic acid-dependent cell adhesion molecule with

carbohydrate/lectin binding activity.

Antigen

1. Favaloro E, et al. 1988. Br. J. Haematol. 69:163.

References: 2. Freeman S, et al. 1995. Blood 85:2005.