

Datasheet: MCA1271SBV440

BATCH NUMBER 64599655

Description:	MOUSE ANTI HUMAN CD33:StarBright Violet 440
Specificity:	CD33
Format:	StarBright Violet 440
Product Type:	Monoclonal Antibody
Clone:	WM53
Isotype:	lgG1
Quantity:	100 TESTS/0.5ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form	Purified IgG conjugat	ed to StarBright Violet	440 - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (ni
	StarBright Violet 440	383	436
	Purified IgG prepared supernatant Phosphate buffered s	d by affinity chromatogo	raphy on Protein G
Preparation Suffer Solution Preservative	Phosphate buffered s	caline (NaN ₃)	raphy on Protein G
Suffer Solution	supernatant Phosphate buffered s	caline (NaN ₃)	raphy on Protein G

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Human AML cells

External Database

Links

UniProt:

P20138 Related reagents

Entrez Gene:

945 CD33 Related reagents

Synonyms

SIGLEC3

Fusion Partners

Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS1 myeloma cell line

Specificity

Mouse anti Human CD33 antibody, clone WM53 recognizes the human CD33 cell surface glycoprotein. This antigen, considered to be specific for the myeloid lineage, has also been reported to be present on cells of lymphoid origin.

Mouse anti Human CD33 antibody, clone WM53 immunoprecipitates a protein of ~75 kDa from myeloid cells, a smaller protein of approximately 67 kDa has been observed in immunoprecipitates from lymphoid targets.

Flow Cytometry

Use 5µl of the suggested working dilution to label 10⁶ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

References

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- 6. Dahl C *et al.* (2004) Human mast cells express receptors for IL-3, IL-5 and GM-CSF; a partial map of receptors on human mast cells cultured *in vitro*. Allergy. 59 (10): 1087-96.
- 7. Lajaunias, F. *et al.* (2005) Constitutive repressor activity of CD33 on human monocytes requires sialic acid recognition and phosphoinositide 3-kinase-mediated intracellular signaling. <u>Eur J Immunol. 35: 243-51.</u>
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- 9. Hernández-Caselles, T. *et al.* (2006) A study of CD33 (SIGLEC-3) antigen expression and function on activated human T and NK cells: two isoforms of CD33 are generated by

alternative splicing. <u>J Leukoc Biol. 79: 46-58.</u>

- 10. Biedermann, B. et al. (2006) Analysis of the CD33-related siglec family reveals that Siglec-9 is an endocytic receptor expressed on subsets of acute myeloid leukemia cells and absent from normal hematopoietic progenitors. Leuk Res. 31: 211-20.
- 11. Yasukawa, T. et al. (2012) Simple detection of surface antigens on living cells by applying distinct cell positioning with negative dielectrophoresis. Anal Chem. 84 (20): 8830-6.
- 12. McCormack E et al. (2013) Multiplexed mAbs: a new strategy in preclinical time-domain imaging of acute myeloid leukemia. Blood. 121 (7): e34-42.
- 13. Hu, Z. et al. (2016) Self-assembled nanoparticles based on folic acid modified carboxymethyl chitosan conjugated with targeting antibody J Wuhan Univ of Technol-Mater. Sci. Ed. 31 (2): 446-53.
- 14. Hernández-Caselles T et al. (2019) CD33 (Siglec-3) Inhibitory Function: Role in the NKG2D/DAP10 Activating Pathway. J Immunol Res. 2019: 6032141.

Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Acknowledgements	This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts
Health And Safety Information	Material Safety Datasheet documentation #20438 available at: https://www.bio-rad-antibodies.com/SDS/MCA1271SBV440 20438
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376 America

Worldwide

Tel: +44 (0)1865 852 700

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Email: antibody sales de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M417922:230420'

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