

Datasheet: TZA1271GA

BATCH NUMBER 64749185

Description:	MOUSE ANTI HUMAN CD33
Specificity:	CD33
Other names:	GP67
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rWM53
Isotype:	IgG1
Quantity:	0.1 mg

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	▪			

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.

Target Species	Human
Product Form	Purified recombinant IgG containing a SpyTag at the C-terminus of the antibody heavy chain – liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Source	CHO cells
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen	Human AML cells
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External Database Links

UniProt:

[P20138](#)

[Related reagents](#)

Entrez Gene:

[945](#)

CD33

[Related reagents](#)

Synonyms

SIGLEC3

Specificity

Mouse anti Human CD33, clone rWM53, is a recombinant monoclonal antibody that recognizes CD33, also known as Siglec-3 or gp67.

CD33 is a single pass type I membrane protein and member of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. CD33 is expressed on myeloid progenitors, monocytes, granulocytes, dendritic cells and mast cells, but is absent on lymphocytes, normal platelets, hematopoietic stem cells and erythrocytes. CD33 binds the sialoglycan sequence Neu5Acα2-3[6SO3]Galβ1-4GlcNAc on the surface of target cells. Upon CD33 activation, the immunoreceptor tyrosine-based inhibition motif (ITIM) is phosphorylated by Src family kinases, resulting in recruitment of SH2 domain containing phosphatases and inhibition of cellular activation. As sialoglycans are present on almost all human cells, CD33 and other members of the siglec family have a role in discriminating self from non-self.

CD33 has a role in autoimmune diseases and is a drug target in acute myeloid leukemia.

Mouse anti Human CD33 antibody, clone rWM53, is derived from clone WM53 ([MCA1271](#)), generated by cloning the variable DNA sequences into expression vectors for recombinant protein expression.

Flow Cytometry

Use 5µl of the suggested working dilution to label 0.5x10⁶ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Acknowledgements

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/TZA1271GA
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M451017:260622'

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