

Datasheet: TZA0149GA

BATCH NUMBER 64759439

Description:	MOUSE ANTI HUMAN CD99
Specificity:	CD99
Other names:	MIC2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA24B24-01/1H10
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	Recombinant CD99 Asp23-Asp122 expressed by mammalian cells
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External Database Links

UniProt:

[P14209](#)

[Related reagents](#)

Entrez Gene:

[4267](#)

CD99

[Related reagents](#)

Synonyms

MIC2, MIC2X, MIC2Y

Specificity

Mouse anti Human CD99 antibody, clone rA24B24-01/1H10, is a recombinant monoclonal antibody that recognizes CD99, also known as protein MIC2.

CD99 is a single pass type I transmembrane protein that is widely expressed on the surface of most human cells. It is particularly highly expressed in hematopoietic cells, the thymus, endothelial cells and Sertoli cells. CD99 has two isoforms that are expressed in a cell-type dependent manner and have different functions. CD99 has a role in T cell development, migration, proliferation and stimulation, regulating Major Histocompatibility Complex (MHC) Class I transport to the cell surface and diapedesis of monocytes across the endothelium.

CD99 is highly expressed in certain malignancies including Ewing sarcoma, myeloid malignancies, lymphoblastic lymphoma/leukemia and malignant glioma. In tumors that overexpress CD99, it has been used as a biomarker and promising therapeutic target.

Flow Cytometry

Use 5µl of the suggested working dilution to label 0.5×10^6 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.

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 bio-rad.com/en-us/trademarks for details.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/TZA0149GA>

Regulatory

For research purposes only

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
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

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

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