Datasheet: TZA0176GA

BATCH NUMBER 64759447

Description:	MOUSE ANTI HUMAN CD59
Specificity:	CD59
Other names:	MAC-IP
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA49B49-05/3A2
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 CD59 Leu26-Asn102 expressed by mammalian cells
External Database Links	**UniProt:** P13987 Related reagents **Entrez Gene:** 966 CD59 Related reagents
Synonyms	MIC11, MIN1, MIN2, MIN3, MSK21
Specificity	**Mouse anti Human CD59 antibody, clone rA49B49-05/3A2**, is a recombinant monoclonal antibody that recognizes CD59, also known as MAC-inhibitory protein (MAC-IP), membrane inhibitor of reactive lysis (MIRL) or protectin. CD59 is predominantly a GPI-anchored membrane protein that is widely expressed across cell and tissue types, including erythrocytes, leukocytes and various epithelial cells. It is an essential component of the innate immune system, inhibiting membrane attack complex (MAC) formation by binding the component complement proteins C8 and C9. CD59 also regulates T cell transduction by transferring a palmitate group to the linker for activation of T cells protein (LAT), causing co-localisation in lipid rafts. CD59 deficiency results in excessive complement activation and is associated with various disorders, including paroxysmal nocturnal hemoglobinuria, diabetes and multiple sclerosis. CD59 expression is elevated in multiple cancers, contributing to tumor cell evasion of the innate immune system.
Flow Cytometry	Use 5µl of the suggested working dilution to label $0.5x10^6$ 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/TZA0176GA

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

'M485702:260902'

Printed on 28 Oct 2026

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