

Datasheet: TZA082GA

BATCH NUMBER 64749181

Description:	MOUSE ANTI HUMAN CD39
Specificity:	CD39
Other names:	ENTPD1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA8-07/4C11
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	Mammalian cells transfected with full length CD39
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External Database Links

UniProt:

[P49961](#)

[Related reagents](#)

Entrez Gene:

[953](#)

ENTPD1

[Related reagents](#)

Synonyms	CD39
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Specificity

Mouse anti Human CD39 antibody, clone rA8-07/4C11, is a recombinant monoclonal antibody that recognizes CD39, also known as Ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1) or NTPDase1.

CD39 is an integral membrane protein that dephosphorylates extracellular ATP (eATP) to AMP. CD39 is the rate limiting enzyme in the generation of extracellular adenosine. Accumulated extracellular adenosine mediates broad immunosuppressive actions by binding adenosine receptors such as A2AR. CD39 is expressed on several immune subpopulations, particularly B cells, natural killer (NK) cells, tumor-associated-macrophages (TAM) and tumor-infiltrating lymphocytes (TILs) including Tregs. It is also highly expressed in placenta, lung, skeletal muscle and kidney.

CD39 can be used as a marker to distinguish Tregs from other resting or activated T cells. Overexpression of CD39 has been found in several cancers, including ovarian cancer, breast cancer, lymphoma, colon cancer and melanoma, with high expression levels considered an indicator of poor disease outcomes and disease progression. The upregulation of CD39 by tumors is therefore implicated in depleting the immune-stimulatory eATP in the tumor microenvironment (TME), leading to tumor immune evasion.

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.
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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
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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/TZA082GA>

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
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
'M451016:260622'

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