

Datasheet: TZA078GA

Description:	MOUSE ANTI HUMAN CD73
Specificity:	CD73
Other names:	5'-NT
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	rA9-03/4C2
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 Concentrations	IgG concentration 1.0 mg/ml

Immunogen Mammalian cells transfected with full length CD73

External Database

Links

UniProt:

[P21589](#) [Related reagents](#)

Entrez Gene:

[4907](#) NT5E [Related reagents](#)

Synonyms

NT5, NTE

Specificity

Mouse anti Human CD73 antibody, clone rA9-03/4C2, is a recombinant monoclonal antibody that recognizes CD73, also known as Ecto-5'-nucleotidase or 5'-NT.

CD73 is a cell surface GPI-anchored enzyme that catalyses the final step in the extracellular metabolism of ATP to form adenosine. It is expressed on endothelial cells, subsets of T cells and B cells, follicular dendritic cells and stromal cells. The formation of extracellular adenosine by CD73 regulates numerous signaling pathways through the activation of G protein-coupled adenosine receptors. CD73 plays a critical role in cellular homeostasis, stress responses and injury across many tissues.

CD73 was originally identified as a marker of lymphocyte differentiation. CD73 is expressed by many different types of cancer and promotes tumor outgrowth, metastasis and drug resistance. High CD73 expression in tumors is associated with shorter overall survival and poor prognosis of patients in multiple cancers, including ovarian cancer, pancreatic cancer, and melanoma. Up-regulation of CD73 in breast cancer patients has been highlighted as a mechanism of resistance to therapies, with CD73 expression significantly related to poor prognosis and chemoresistance and blockade of the enzyme improving antitumor responses. CD73 expression has been indicated as both a potential prognostic factor for human solid tumors, a promising target in future cancer immunotherapy and as a potential biomarker for anti-PD-1/PD-L1 treatment.

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/TZA078GA>

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](#)
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](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [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
'M446663:260109'

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