

Datasheet: MCA1268GA

Description:	MOUSE ANTI HUMAN CD39
Specificity:	CD39
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	A1
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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Immunofluorescence	▪			

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 IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	PHA activated human lymphocytes
External Database Links	<p>UniProt: P49961 Related reagents</p> <p>Entrez Gene: 953 ENTPD1 Related reagents</p>
Synonyms	CD39
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line
Specificity	<p>Mouse anti Human CD39, clone A1 recognizes the human CD39 cell surface antigen, a ~70-100 kDa molecule expressed on peripheral blood B cells, T cells and monocytes, and weakly expressed by granulocytes.</p> <p>CD39 has intrinsic ecto-ATPase activity (Wang et al. 1996), and expression can be induced on T cells and increased on B cells, as a late activation antigen (Maliszewski et al. 1994).</p> <p>Mouse anti Human CD39, clone A1 has been shown to block MHC independent target cell recognition by hapten-specific CTL (Stockl et al. 2001).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells
References	<ol style="list-style-type: none"> 1. Aversa, G.G. <i>et al.</i> (1988) Detection of a late lymphocyte activation marker by A1, a new monoclonal antibody. Transplant Proc. 20 (1): 49-52. 2. Waugh, J.A. <i>et al.</i> (1989) Staining of normal and rejecting kidney using the activation panel. In: Leucocyte Typing IV. White cell differentiation antigens. Edited by Knapp, W. <i>et al.</i> Oxford University Press. p485. 3. Aversa, G.G. and Hall, B.M. (1989) Activation panel antigen expression on PBL activated by PHA or in MLR. In: Leucocyte Typing IV. White cell differentiation antigens. Edited by Knapp, W. <i>et al.</i> Oxford University Press, p.498. 4. Aversa, G.G. <i>et al.</i> (1989) Use of monoclonal antibodies to study in vivo and in vitro-activated lymphocytes. Transplant Proc. 21 (1 Pt 1): 349-50. 5. Stein, H. <i>et al.</i> (1989) Activated Section report. In: Leucocyte Typing IV. White cell differentiation antigens. Edited by Knapp, W. <i>et al.</i> Oxford University Press, p.387. 6. Suranyi, M.G. <i>et al.</i> (1991) Lymphocyte adhesion molecules in T cell-mediated lysis of human kidney cells. Kidney Int. 39 (2): 312-9. 7. Stöckl, J. <i>et al.</i> (2001) Monomorphic molecules function as additional recognition structures on haptened target cells for HLA-A1-restricted, hapten-specific CTL. J Immunol. 167 (5): 2724-33. 8. Scholzen, A. <i>et al.</i> (2009) Plasmodium falciparum-mediated induction of human

CD25Foxp3 CD4 T cells is independent of direct TCR stimulation and requires IL-2, IL-10 and TGFbeta. [PLoS Pathog. 5: e1000543.](#)

9. Borsellino, G. *et al.* (2007) Expression of ectonucleotidase CD39 by Foxp3+ Treg cells: hydrolysis of extracellular ATP and immune suppression [Blood. 110:1225-32.](#)

10. Mittag, D. *et al.* (2010) The effector T cell response to ryegrass pollen is counterregulated by simultaneous induction of regulatory T cells. [J Immunol. 184: 4708-16.](#)

11. Loeuillet, C. *et al.* (2008) In vitro whole-genome analysis identifies a susceptibility locus for HIV-1. [PLoS Biol. 6: e32.](#)

12. Rawstron, A.C. *et al.* (2010) Chronic lymphocytic leukaemia (CLL) and CLL-type monoclonal B-cell lymphocytosis (MBL) show differential expression of molecules involved in lymphoid tissue homing. [Cytometry B Clin Cytom. 78 Suppl 1: S42-6.](#)

13. Alam, M.S. *et al.* (2009) CD73 is expressed by human regulatory T helper cells and suppresses proinflammatory cytokine production and Helicobacter felis-induced gastritis in mice. [J Infect Dis. 199: 494-504.](#)

14. Moreno-Fernandez, M.E. *et al.* (2011) Regulatory T cells control HIV replication in activated T cells through a cAMP-dependent mechanism. [Blood. 117: 5372-80.](#)

15. Guevara-Flores, A. *et al.* (2008) 5'-p-Fluorosulfonyl benzoyl adenosine inhibits an ecto-ATP-diphosphohydrolase in the tegument surface of Taenia crassiceps cysticerci. [Mol Biochem Parasitol. 162: 123-33.](#)

16. Glenn, J.R. *et al.* (2008) Raised levels of CD39 in leucocytosis result in marked inhibition of ADP-induced platelet aggregation via rapid ADP hydrolysis. [Platelets. 19: 59-69.](#)

17. Häusler SF *et al.* (2014) Anti-CD39 and anti-CD73 antibodies A1 and 7G2 improve targeted therapy in ovarian cancer by blocking adenosine-dependent immune evasion. [Am J Transl Res. 6 \(2\): 129-39.](#)

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
------------------	---------------------------------

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
--------------------------------------	---

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800

Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
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 \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

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

'M383428:210513'

Printed on 16 Sep 2022

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)