

Datasheet: MCA1268GA

### **BATCH NUMBER 148646**

Description: MOUSE ANTI HUMAN CD3		
Specificity: CD39		
Format:	Purified	
Product Type:	Monoclonal Antibody	
Clone:	A1	
Isotype:	e: 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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 supernatant	A from tissue culture
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	UniProt:  P49961 Related reagents  Entrez Gene:  953 ENTPD1 Related reagents
Synonyms	CD39
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line
Specificity	<b>Mouse anti Human CD39, clone A1</b> 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.
	CD39 has intrinsic ecto-ATPase activity ( <u>Wang et al. 1996</u> ), and expression can be induced on T cells and increased on B cells, as a late activation antigen ( <u>Maliszewski et al. 1994</u> ).
	Mouse anti Human CD39, clone A1 has been shown to block MHC independent target cell recognition by hapten-specific CTL (Stockl <i>et al.</i> 2001).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells
References	<ol> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Stöckl, J. <i>et al.</i> (2001) Monomorphic molecules function as additional recognition structures on haptenated target cells for HLA-A1-restricted, hapten-specific CTL. J</li> </ol>

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- 11. Loeuillet, C. *et al.* (2008) In vitro whole-genome analysis identifies a susceptibility locus for HIV-1. PLoS Biol. 6: e32.
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- 14. Moreno-Fernandez, M.E. *et al.* (2011) Regulatory T cells control HIV replication in activated T cells through a cAMP-dependent mechanism. <u>Blood</u>. 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. <u>Mol Biochem Parasitol</u>. 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. <u>Platelets. 19:</u> 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. <u>Am J Transl Res. 6 (2): 129-39.</u>

#### **Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1268GA">https://www.bio-rad-antibodies.com/SDS/MCA1268GA</a> 10040	
Regulatory	For research purposes only	

# Related Products

## **Recommended Secondary Antibodies**

Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP
Goat Anti Mouse IgG (STAR76...) RPE

Rabbit Anti Mouse IgG (STAR13...)

HRP

Goat Anti Mouse IgG (STAR70...) FITC

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 (STAR9...) FITC
Goat Anti Mouse IgG (STAR77...) HRP

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

## **Recommended Negative Controls**

### MOUSE IgG1 NEGATIVE CONTROL (MCA928)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365051:200529'

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