

Datasheet: MCA1268PET

Description:	MOUSE ANTI HUMAN CD39:RPE
Specificity:	CD39
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	A1
Isotype:	lgG1
Quantity:	25 TESTS

Product Details

RRID	AB_2099946
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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				Neat

Where this antibody 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 recomended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human			
Product Form	Purified IgG conjugate	ed to R. Phycoerythrir	n (RPE) - lyophilized	
Reconstitution	Reconstitute in 0.25 n	nl disilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepared	by affinity chromatog	raphy on Protein A from	tissue culture supernatant
Buffer Solution	Phosphate buffered sa	aline		
Preservative	0.09% Sodium Azide			
Stabilisers	1% Bovine Serum	Albumin		
	5% Sucrose			
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	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.
	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 et al. 2001).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood

References

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- 4. Aversa, G.G. *et al.* (1989) Use of monoclonal antibodies to study in vivo and in vitro-activated lymphocytes. Transplant Proc. 21 (1 Pt 1): 349-50.
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- 6. Suranyi, M.G. *et al.* (1991) Lymphocyte adhesion molecules in T cell-mediated lysis of human kidney cells. Kidney Int. 39 (2): 312-9.
- 7. Stöckl, J. *et al.* (2001) Monomorphic molecules function as additional recognition structures on haptenated target cells for HLA-A1-restricted, hapten-specific CTL. <u>J Immunol. 167 (5): 2724-33.</u>
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- 9. Borsellino, G. *et al.* (2007) Expression of ectonucleotidase CD39 by Foxp3+ Treg cells: hydrolysis of extracellular ATP and immune suppression <u>Blood</u>. 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.
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- 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. <u>J Infect Dis.</u> 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-ATPdiphosphohydrolase 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

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

This product should be stored undiluted.

DO NOT FREEZE. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Worldwide

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

America

North & South Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

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

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