

Datasheet: MCA1268F BATCH NUMBER 1702

Description:	MOUSE ANTI HUMAN CD39:FITC			
Specificity:	CD39			
Format:	FITC			
Product Type:	Monoclonal Antibody			
Clone:	A1			
Isotype:	lgG1			
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 <u>www.bio-</u> <u>rad-antibodies.com/protocols</u> .						
		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 it a guide only. It is reco system using appropr	omended that th	ne user	titrates the antibody	ng dilutions are given as for use in their own		
Target Species	Human						
Product Form	Purified IgG conjugate	ed to Fluoresce	in Isoth	niocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max	x (nm)	Emission Max (nm)			
	FITC	490		525			
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum	Albumin					
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml						
Immunogen	PHA activated human lymphocytes						

External Database Links	UniProt: P49961 Related reagents Entrez Gene: 953 ENTPD1 Related reagents
Synonyms	CD39
RRID	AB_323605
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 <i>et al.</i> 1996</u>), and expression can be induced on T cells and increased on B cells, as a late activation antigen (<u>Maliszewski <i>et</i></u> <u><i>al.</i> 1994</u>).
	Mouse anti Human CD39, clone A1 has been shown to block MHC independent target cell recognition by hapten-specific CTL (<u>Stockl <i>et al.</i> 2001</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood
References	 Aversa, G.G. <i>et al.</i> (1988) Detection of a late lymphocyte activation marker by A1, a new monoclonal antibody. <u>Transplant Proc. 20 (1): 49-52.</u> 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. 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. Aversa, G.G. <i>et al.</i> (1989) Use of monoclonal antibodies to study in vivo and in vitro-activated lymphocytes. <u>Transplant Proc. 21 (1 Pt 1): 349-50.</u> 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. Suranyi, M.G. <i>et al.</i> (1991) Lymphocyte adhesion molecules in T cell-mediated lysis of human kidney cells. <u>Kidney Int. 39 (2): 312-9.</u> 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 <u>Immunol. 167 (5): 2724-33.</u> 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. <u>PLoS Pathog. 5: e1000543.</u> Borsellino, G. <i>et al.</i> (2007) Expression of ectonucleotidase CD39 by Foxp3+ Treg cells:

	hydrolysis of extracellular ATP and immune suppression <u>Blood. 110:1225-32.</u> 10. Mittag, D. <i>et al.</i> (2010) The effector T cell response to ryegrass pollen is
	counterregulated by simultaneous induction of regulatory T cells. <u>J Immunol. 184:</u> <u>4708-16.</u>
	11. Loeuillet, C. <i>et al.</i> (2008) In vitro whole-genome analysis identifies a susceptibility locus for HIV-1. <u>PLoS Biol. 6: e32.</u>
	12. Rawstron, A.C. <i>et al.</i> (2010) Chronic lymphocytic leukaemia (CLL) and CLL-type monoclonal B-cell lymphocytosis (MBL) show differential expression of molecules involved in lymphoid tissue homing. <u>Cytometry B Clin Cytom. 78 Suppl 1: S42-6.</u>
	 Alam, M.S. <i>et al.</i> (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. 199: 494-504.</u>
	 14. Moreno-Fernandez, M.E. <i>et al.</i> (2011) Regulatory T cells control HIV replication in activated T cells through a cAMP-dependent mechanism. <u>Blood. 117: 5372-80.</u> 15. Guevara-Flores, A. <i>et al.</i> (2008) 5'-p-Fluorosulfonyl benzoyl adenosine inhibits an ecto-ATP-diphosphohydrolase in the tegument surface of Taenia crassiceps cysticerci. <u>Mol</u>
	<u>Biochem Parasitol. 162: 123-33.</u> 16. Glenn, J.R. <i>et al.</i> (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 <i>et al.</i> (2014) Anti-CD39 and anti-CD73 antibodies A1 and 7G2 improve targeted therapy in ovarian cancer by blocking adenosine-dependent immune evasion. <u>Am</u> <u>J Transl Res. 6 (2): 129-39.</u>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.
	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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1268F 10041
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA928F)

Recommended Useful Reagents

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
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-rac	d.com	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 'M365049:200529'

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