Datasheet: MCA2142 BATCH NUMBER 164073

Description:	MOUSE ANTI HUMAN CD63
Specificity:	CD63
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-259
Isotype:	lgG1
Quantity:	0.2 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	originator	s. Please	refer to reference	s indicated for further	
	information. For general protocol recommendations, please visit <u>www.bio-</u>					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry				1/25 - 1/100	
	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 us	se in such	procedure	es. Suggested wor	rking 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 salin	e				
Preservative Stabilisers	0.09% sodium azide (Nal	N ₃)				

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	HPB-ALL cell line.
External Database Links	UniProt: P08962 Related reagents Entrez Gene: 967 CD63 Related reagents
Synonyms	MLA1, TSPAN30
RRID	AB_324562
Specificity	Mouse anti Human CD63 antibody, clone MEM-259 recognizes the CD63 cell surface antigen, also known as granulophysin, lysozomal associated membrane protein 3 (LAMP-3), Melanoma-associated antigen ME491, Ocular melanoma-associated antigen or tetraspanin-30. CD63 is a 238 amino acid, tetraspanin glycoprotein of ~40-60 kDa. CD63 is expressed by monocytes, macrophages, endothelial cells where it is a component of Weibel-Palade bodies (Vischer <i>et al.</i> 1993) and by a variety of cell lines. It is located intracellularly in lysosomal granules of platelets, being translocated to the surface upon activation. It may therefore by useful as a marker of platelet activation (Hamamoto <i>et al.</i> 1994). CD63 expression is also associated with melanoma development (Radford <i>et al.</i> 1997) and expression is rapidly down-regulated by progesterone in endometrial tissues (Okada <i>et al.</i> 1999).
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl or 100µl whole blood
References	 Casey, T.M. <i>et al.</i> (2007) Organelle proteomics: identification of the exocytic machinery associated with the natural killer cell secretory lysosome. <u>Mol Cell Proteomics. 6 (5)</u>: <u>767-80.</u> Durand-Panteix, S. <i>et al.</i> (2012) B7-H1, which represses EBV-immortalized B cell killing by autologous T and NK cells, is oppositely regulated by c-Myc and EBV latency III program at both mRNA and secretory lysosome levels. <u>J Immunol. 189 (1): 181-90.</u> Abdel-Latif, D. <i>et al.</i> (2004) Rac2 is critical for neutrophil primary granule exocytosis. <u>Blood. 104: 832-9.</u> Norling, L.V. <i>et al.</i> (2012) Resolvin D1 limits polymorphonuclear leukocyte recruitment to inflammatory loci: receptor-dependent actions. <u>Arterioscler Thromb Vasc Biol. 32 (8)</u>: <u>1970-8.</u> McKechnie, N.M. <i>et al.</i> (2006) Fas-ligand is stored in secretory lysosomes of ocular barrier epithelia and released with microvesicles. <u>Exp Eye Res. 83: 304-14.</u> Spring, F.A. <i>et al.</i> (2013) Tetraspanins CD81 and CD82 facilitate α4β1-mediated adhesion of human erythroblasts to vascular cell adhesion molecule-1. <u>PLoS One.</u> <u>8(5):e62654.</u> Pliyev, B.K. (2008) Activated human neutrophils rapidly release the chemotactically

	active D2D3 form of the urokinase-type plasminogen activator receptor (uPAR/CD87). Mo	<u>)</u>
	<u>Cell Diochem. 521. 111-22.</u>	
	Characteristics of Mol. Ibr Molonomo Colla in Boononoo to Chickon Embryo Extract. Bull	
	Even Biol Mod. 150 (4): 520.2	
	Exp Diol Med. 159 (4). 520-5.	
	9. Schaler, T. et al. (2010) A granular variant of CD03 is a regulator of repeated human	
	mast cell degranulation. <u>Allergy. 65 (10): 1242-55.</u>	
	10. Jakhria, 1. et al. (2014) β2-microglobulin amyloid fibrils are hanoparticles that disrupt	
	lysosomal membrane protein trafficking and innibit protein degradation by lysosomes. J	
	Biol Chem. 289 (52): 35781-94.	
	11. Ethier, C. et al. (2016) Calcitriol Reduces Eosinophil Necrosis Which Leads to the	
	Diminished Release of Cytotoxic Granules. Int Arch Allergy Immunol. 171 (2): 119-29.	
	12. Nielsen, M.H. <i>et al.</i> (2023) Increased extracellular vesicles (EVs) related to T	
	cell-mediated inflammation and vascular function in familial hypercholesterolemia.	
	Atheroscler Plus. 53: 16-25.	
	13. Ilarraza, R. et al. (2023) Rac2 regulates immune complex-mediated granule	
	polarization and exocytosis in neutrophils. <u>J Leukoc Biol. 114 (2): 116-125.</u>	
	14. Vrancx, C. et al. (2021) Mechanism of Cellular Formation and In Vivo Seeding Effects	3
	of Hexameric β-Amyloid Assemblies. <u>Mol Neurobiol. 58 (12): 6647-69.</u>	
	15. Gratpain, V. et al. (2024) Influence of a pro-inflammatory stimulus on the miRNA and	
	lipid content of human dental stem cell-derived extracellular vesicles and their impact on	
	microglial activation <u>Heliyon. : e27025.</u>	
	16. Cinato, M. et al. (2021) Apilimod alters TGFβ signaling pathway and prevents cardiac	;
	fibrotic remodeling. Theranostics. 11 (13): 6491-506.	
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store a	at
	-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C fo	or
	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	Material Safety Datasheet documentation #10040 available at:	
Information	https://www.bio-rad-antibodies.com/SDS/MCA2142	
	10040	
Poquiatory		
regulatory		

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	<u>RPE</u>
Goat Anti Mouse IgG IgA IgM (STAR87)	<u>HRP</u>
Goat Anti Mouse IgG (STAR76)	<u>RPE</u>
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>

Goat Anti Mouse IgG (H/L) (STAR117)			<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,				
		DyL	<u>ight®650, DyLight®68</u>	0, DyLight®8	<u>00,</u>		
		<u>FIT</u>	<u>C, HRP</u>				
Goat Anti	Mouse IgG (STAR77)	HR	<u>P</u>				
Goat Anti Mouse IgG (Fc) (STAR120)		FITC, HRP					
Rabbit Ar	nti Mouse IgG (STAR13)	HR	<u>P</u>				
Rabbit Ar	nti Mouse IgG (STAR9)	<u>FIT</u>	<u>C</u>				
Recomm	nended Negative Controls						
MOUSE Ig	G1 NEGATIVE CONTROL (MCA92	<u>28)</u>					
North & South America	Tel: +1 800 265 7376 Worldwi Fax: +1 919 878 3751	de	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50		
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.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 'M413030:221117'							

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