## Datasheet: MCA2142T BATCH NUMBER 165694

Description:	MOUSE ANTI HUMAN CD63
Specificity:	CD63
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-259
lsotype:	lgG1
Quantity:	25 µg

## **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-rad-antibodies.com/protocols</u> .					
		Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•			1/25 - 1/100	
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin			•		
	ELISA			•		
	Immunoprecipitation	-				
	Western Blotting					
	Immunofluorescence	-				
	necessarily exclude its us a guide only. It is recomm system using appropriate	nended th	at the use	er titrates the product f		
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	е				
Preservative Stabilisers	0.09% sodium azide (Nal	N <sub>3</sub> )				

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_2076627
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 10 $\mu$ l of the suggested working dilution to label 10 <sup>6</sup> cells in 100 $\mu$ l or 100 $\mu$ l whole blood
References	<ol> <li>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></li> <li>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></li> <li>Abdel-Latif, D. <i>et al.</i> (2004) Rac2 is critical for neutrophil primary granule exocytosis. <u>Blood. 104: 832-9.</u></li> <li>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): 1970-8.</u></li> <li>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></li> <li>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></li> <li>Pliyev, B.K. (2008) Activated human neutrophils rapidly release the chemotactically</li> </ol>

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	Cell Biochem. 321: 111-22.				
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	lysosomal membrane protein trafficking and inhibit protein degradation by lysosomes. $\underline{J}$				
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	Diminished Release of Cytotoxic Granules. Int Arch Allergy Immunol. 171 (2): 119-29.				
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	cell-mediated inflammation and vascular function in familial hypercholesterolemia.				
	Atheroscler Plus. 53: 16-25.				
	13. Ilarraza, R. <i>et al.</i> (2023) Rac2 regulates immune complex-mediated granule				
	polarization and exocytosis in neutrophils. J Leukoc Biol. 114 (2): 116-125.				
	14. Vrancx, C. et al. (2021) Mechanism of Cellular Formation and In Vivo Seeding Effect	ts			
	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	ł			
	lipid content of human dental stem cell-derived extracellular vesicles and their impact or				
	microglial activation <u>Heliyon.: e27025.</u>				
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	fibrotic remodeling. Theranostics. 11 (13): 6491-506.	C			
	ibiolic remodeling. <u>meranostics. II (13). 0491-300.</u>				
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 f	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/MCA2142T				
	10040				
Regulatory	For research purposes only				

# **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 Ant	Goat Anti Mouse IgG (H/L) (STAR117) <u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®550</u> ,					
		<u>DyLight®650</u> , <u>DyLight®680</u> , <u>DyLight®800</u> ,				
		<u>FITC</u> , <u>HRP</u>				
Goat Ant	i Mouse IgG (STAR77)	HR	<u>P</u>			
Goat Anti Mouse IgG (Fc) (STAR120)			FITC, HRP			
Rabbit Anti Mouse IgG (STAR13)			HRP			
Rabbit Anti Mouse IgG (STAR9) <u>FITC</u>						
Recommended Negative Controls						
MOUSE IgG1 NEGATIVE CONTROL (MCA928)						
North & South America	Tel: +1 800 265 7376 Worldwin 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	o-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 'M413034:221117'						

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