

Datasheet: MCA2142 BATCH NUMBER 162943

Specificity: CD63 Format: Purified Product Type: Monoclonal Antibody Clone: MEM-259 Isotype: IgG1	Description:	MOUSE ANTI HUMAN CD63	
Product Type: Monoclonal Antibody Clone: MEM-259 Isotype: IgG1	Specificity:	CD63	
Clone: MEM-259 Isotype: IgG1	Format:	Purified	
Isotype: IgG1	Product Type:	Monoclonal Antibody	
	Clone:	MEM-259	
Quantity: 0.2 mg	Isotype:	lgG1	
Guaritity.	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 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	•			1/25 - 1/100
Immunohistology - Frozen			•	
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation				
Western Blotting			•	
Immunofluorescence				

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody 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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

HPB-ALL cell line.
UniProt: P08962 Related reagents Entrez Gene: 967 CD63 Related reagents
MLA1, TSPAN30
AB_324562
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 (<u>Vischer et al. 1993</u>) 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 (<u>Hamamoto et al. 1994</u>). CD63 expression is also associated with melanoma development (<u>Radford et al. 1997</u>) and expression is rapidly down-regulated by progesterone in endometrial tissues (<u>Okada et al. 1999</u>).
Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul or 100ul whole blood.
 Casey, T.M. <i>et al.</i> (2007) Organelle proteomics: identification of the exocytic machinery associated with the natural killer cell secretory lysosome. Mol Cell Proteomics. 6 (5): 767-80. 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. J Immunol. 189 (1): 181-90. Abdel-Latif, D. <i>et al.</i> (2004) Rac2 is critical for neutrophil primary granule exocytosis. Blood. 104: 832-9. Norling, L.V. <i>et al.</i> (2012) Resolvin D1 limits polymorphonuclear leukocyte recruitment to inflammatory loci: receptor-dependent actions. Arterioscler Thromb Vasc Biol. 32 (8): 1970-8. McKechnie, N.M. <i>et al.</i> (2006) Fas-ligand is stored in secretory lysosomes of ocular barrier epithelia and released with microvesicles. Exp Eye Res. 83: 304-14.

7. Pliyev, B.K. (2008) Activated human neutrophils rapidly release the chemotactically active D2D3 form of the urokinase-type plasminogen activator receptor (uPAR/CD87). Mol Cell Biochem. 321: 111-22.

6. Spring, F.A. *et al.* (2013) Tetraspanins CD81 and CD82 facilitate α 4 β 1-mediated adhesion of human erythroblasts to vascular cell adhesion molecule-1. <u>PLoS One.</u>

8(5):e62654.

- 8. Suraeva, N.M. et al. (2015) Changes in the Morphological and Immunological Characteristics of Mel Ibr Melanoma Cells in Response to Chicken Embryo Extract. Bull Exp Biol Med. 159 (4): 520-3.
- 9. Schäfer, T. et al. (2010) A granular variant of CD63 is a regulator of repeated human mast cell degranulation. Allergy. 65 (10): 1242-55.
- 10. Jakhria, T. et al. (2014) β2-microglobulin amyloid fibrils are nanoparticles that disrupt lysosomal membrane protein trafficking and inhibit 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.

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 for 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 Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2142 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** Goat Anti Mouse IgG (STAR70...) **FITC**

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

Worldwide

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

Rabbit Anti Mouse IgG (STAR13...) **HRP**

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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