

Datasheet: MCA2142

Description:	MOUSE ANTI HUMAN CD63
Specificity:	CD63
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MEM-259
Isotype:	IgG1
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 product 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 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 saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

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, lysosomal 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 et al. 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 be useful as a marker of platelet activation ([Hamamoto et al. 1994](#)). CD63 expression is also associated with melanoma development ([Radford et al. 1997](#)) and expression is rapidly down-regulated by progesterone in endometrial tissues ([Okada et al. 1999](#)).

Flow Cytometry

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

References

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3. Abdel-Latif, D. *et al.* (2004) Rac2 is critical for neutrophil primary granule exocytosis. [Blood. 104: 832-9.](#)
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5. McKechnie, N.M. *et al.* (2006) Fas-ligand is stored in secretory lysosomes of ocular barrier epithelia and released with microvesicles. [Exp Eye Res. 83: 304-14.](#)
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[Cell Biochem. 321: 111-22.](#)

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.](#)

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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. *et al.* (2023) Increased extracellular vesicles (EVs) related to T cell-mediated inflammation and vascular function in familial hypercholesterolemia. [Atheroscler Plus. 53: 16-25.](#)

13. Ilaraza, R. *et al.* (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 Effects of Hexameric β -Amyloid Assemblies. [Mol Neurobiol. 58 \(12\): 6647-69.](#)

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 [Heliyon. : e27025.](#)

16. Cinato, M. *et al.* (2021) Apilimod alters TGF β 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 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](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	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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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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