

Datasheet: MCA2142

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|----------------------|-----------------------|
| 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 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 |

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 10ul of the suggested working dilution to label 10⁶ cells in 100ul or 100ul whole blood.

References

1. Casey, T.M. *et al.* (2007) Organelle proteomics: identification of the exocytic machinery associated with the natural killer cell secretory lysosome. [Mol Cell Proteomics. 6 \(5\): 767-80.](#)
2. Durand-Panteix, S. *et al.* (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.](#)
3. Abdel-Latif, D. *et al.* (2004) Rac2 is critical for neutrophil primary granule exocytosis. [Blood. 104: 832-9.](#)
4. Norling, L.V. *et al.* (2012) Resolvin D1 limits polymorphonuclear leukocyte recruitment to inflammatory loci: receptor-dependent actions. [Arterioscler Thromb Vasc Biol. 32 \(8\): 1970-8.](#)
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.](#)
6. Spring, F.A. *et al.* (2013) Tetraspanins CD81 and CD82 facilitate $\alpha 4\beta 1$ -mediated adhesion of human erythroblasts to vascular cell adhesion molecule-1. [PLoS One. 8\(5\):e62654.](#)
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.](#)

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) β 2-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: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#), [DyLight®650](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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