

## Datasheet: MCA2142FT

### BATCH NUMBER 1703

<b>Description:</b>	MOUSE ANTI HUMAN CD63:FITC
<b>Specificity:</b>	CD63
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MEM-259
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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 [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	HPB-ALL cell line.		

External Database  
Links

UniProt:

[P08962](#)   [Related reagents](#)

Entrez Gene:

[967](#)   CD63   [Related reagents](#)

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Synonyms

MLA1, TSPAN30

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RRID

AB\_2076628

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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](#)).

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Flow Cytometry

Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul or 100ul whole blood.

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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)  $\beta$ 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.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2142FT10041>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto: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](https://www.bio-rad-antibodies.com/datasheets)

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