

Datasheet: MCA4754GA

Description:	MOUSE ANTI RAT CD63
Specificity:	CD63
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AD1
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

RRID AB_10598139

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	▪			1/10 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

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 Rat

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 (NaN₃)

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen RBL-2H3 rat basophilic leukaemia cell line.

**External Database
Links**

UniProt:

[P28648](#) [Related reagents](#)

Entrez Gene:

[29186](#) Cd63 [Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag8-653 myeloma cell line.

Specificity **Mouse anti Rat CD63 antibody, clone AD1** recognizes rat CD63, an intracellular type-III lysosomal glycoprotein and member of the tetraspanin (TM4SF) family, found on activated platelets and resident macrophages.

Rat CD63 is expressed on mast cells, is located near to FcER1.

Mouse anti Rat CD63 antibody, clone AD1 partially inhibits IgE-mediated histamine release ([Kitani et al. 1991](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

**Histology Positive
Control Tissue** Mast cells or basophils.

References

1. Kraft, S. *et al.* (2005) Anti-CD63 antibodies suppress IgE-dependent allergic reactions *in vitro* and *in vivo*. [J Exp Med. 201: 385-96.](#)
2. Boros, M. *et al.* (1995) Response of mucosal mast cells to intestinal ischemia-reperfusion injury in the rat. [Shock. 3 \(2\): 125-31.](#)
3. Vincent-Schneider, H. *et al.* (2001) Secretory granules of mast cells accumulate mature and immature MHC class II molecules [J Cell Sci. 114\(Pt 2\): 323-34.](#)
4. Ramezani-Moghadam, M. *et al.* (2015) Adiponectin Reduces Hepatic Stellate Cell Migration by Promoting Tissue Inhibitor of Metalloproteinase-1 (TIMP-1) Secretion. [J Biol Chem. 290\(9\): 5533-42.](#)
5. Yoshimura, A. *et al.* (2016) Generation of a novel transgenic rat model for tracing extracellular vesicles in body fluids. [Sci Rep. 6: 31172.](#)

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

Guarantee 18 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 IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

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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