

Datasheet: MCA4754FT

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|----------------------|--------------------------|
| Description: | MOUSE ANTI RAT CD63:FITC |
| Specificity: | CD63 |
| Format: | FITC |
| Product Type: | Monoclonal Antibody |
| Clone: | AD1 |
| Isotype: | IgG1 |
| Quantity: | 25 µg |

Product Details

RRID AB_10673978

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 | ■ | | | Neat |

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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|-----------|-------------|---------------------|-------------------|
| | FITC | 490 | 525 |

Preparation Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide (NaN₃)
Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.1mg/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.

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.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. 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.

Guarantee 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA1209F\)](#)

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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