Datasheet: MCA4754FT

Description:	MOUSE ANTI RAT CD63:FITC
Specificity:	CD63
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AD1
Isotype:	IgG1
Quantity:	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.

	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 A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
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
RRID	AB_10673978
Fusion Partners	Spleen cells from immunized 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 in tissues and can be induced on other cell types *in vitro* (Nishikata *et al.* 1992). Mouse anti Rat CD63 antibody, clone AD1 partially inhibits IgE-mediated histamine release and binding competition assays indicate that it is sterically situated close to the high-affinity IgE receptor on rat basophilic leukemia (RBL-2H3) cells (Kitani *et al.* 1991).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Boros, M. *et al.* (1995) Response of mucosal mast cells to intestinal ischemia-reperfusion injury in the rat. Shock. 3 (2): 125-31. 2. 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. 3. Kraft, S. *et al.* (2005) Anti-CD63 antibodies suppress IgE-dependent allergic reactions *in vitro* and *in vivo*. J Exp Med. 201: 385-96. 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. 6. Pasquier, A. *et al.* (2019) Lysosomal degradation of newly formed insulin granules contributes to β cell failure in diabetes. Nat Commun. 10 (1): 3312. 7. Pusic, K.M. *et al.* (2019) IFNγ-Stimulated Dendritic Cell Exosomes for Treatment of Migraine Modeled Using Spreading Depression. Front Neurosci. 13: 942.
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. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA4754FT 10041
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

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

'M385198:210513'

Printed on 19 Jan 2024

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