

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

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 (NaN ₃)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	RBL-2H3 rat basophilic leukaemia cell line.
External Database Links	<p>UniProt: P28648 Related reagents</p> <p>Entrez Gene: 29186 Cd63 Related reagents</p>
RRID	AB_10598139
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag8-653 myeloma cell line.
Specificity	<p>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 <i>in vitro</i> (Nishikata et al. 1992).</p> <p>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).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Mast cells or basophils.
References	<ol style="list-style-type: none"> Kraft, S. <i>et al.</i> (2005) Anti-CD63 antibodies suppress IgE-dependent allergic reactions <i>in vitro</i> and <i>in vivo</i>. J Exp Med. 201: 385-96. Boros, M. <i>et al.</i> (1995) Response of mucosal mast cells to intestinal ischemia-reperfusion injury in the rat. Shock. 3 (2): 125-31. Vincent-Schneider, H. <i>et al.</i> (2001) Secretory granules of mast cells accumulate mature and immature MHC class II molecules J Cell Sci. 114(Pt 2): 323-34. Ramezani-Moghadam, M. <i>et al.</i> (2015) Adiponectin Reduces Hepatic Stellate Cell Migration by Promoting Tissue Inhibitor of Metalloproteinase-1 (TIMP-1) Secretion. J Biol Chem. 290(9): 5533-42. Yoshimura, A. <i>et al.</i> (2016) Generation of a novel transgenic rat model for tracing extracellular vesicles in body fluids. Sci Rep. 6: 31172. Pasquier, A. <i>et al.</i> (2019) Lysosomal degradation of newly formed insulin granules contributes to β cell failure in diabetes. Nat Commun. 10 (1): 3312.
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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
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 (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	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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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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