

# Datasheet: MCA4754GA

**BATCH NUMBER 151534**

<b>Description:</b>	MOUSE ANTI RAT CD63
<b>Specificity:</b>	CD63
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AD1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	RBL-2H3 rat basophilic leukaemia cell line.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P28648</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">29186</a>   Cd63   <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_10598139
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag8-653 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Rat CD63 antibody, clone AD1</b> 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> (<a href="#">Nishikata et al. 1992</a>).</p> <p>Mouse anti Rat CD63 antibody, clone AD1 partially inhibits IgE-mediated histamine release and binding competition studies indicate that it is sterically situated close to the high-affinity IgE receptor on rat basophilic leukemia (RBL-2H3) cells (<a href="#">Kitani et al. 1991</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>Histology Positive Control Tissue</b>	Mast cells or basophils.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Kraft, S. <i>et al.</i> (2005) Anti-CD63 antibodies suppress IgE-dependent allergic reactions <i>in vitro</i> and <i>in vivo</i>. <a href="#">J Exp Med. 201: 385-96.</a></li> <li>2. Boros, M. <i>et al.</i> (1995) Response of mucosal mast cells to intestinal ischemia-reperfusion injury in the rat. <a href="#">Shock. 3 (2): 125-31.</a></li> <li>3. Vincent-Schneider, H. <i>et al.</i> (2001) Secretory granules of mast cells accumulate mature and immature MHC class II molecules <a href="#">J Cell Sci. 114(Pt 2): 323-34.</a></li> <li>4. Ramezani-Moghadam, M. <i>et al.</i> (2015) Adiponectin Reduces Hepatic Stellate Cell Migration by Promoting Tissue Inhibitor of Metalloproteinase-1 (TIMP-1) Secretion. <a href="#">J Biol Chem. 290(9): 5533-42.</a></li> <li>5. Yoshimura, A. <i>et al.</i> (2016) Generation of a novel transgenic rat model for tracing extracellular vesicles in body fluids. <a href="#">Sci Rep. 6: 31172.</a></li> <li>6. Pasquier, A. <i>et al.</i> (2019) Lysosomal degradation of newly formed insulin granules contributes to <math>\beta</math> cell failure in diabetes. <a href="#">Nat Commun. 10 (1): 3312.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>

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.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4754GA">https://www.bio-rad-antibodies.com/SDS/MCA4754GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
'M367988:200529'

Printed on 19 Jan 2024