

Datasheet: MCA4754A488T

Description:	MOUSE ANTI RAT CD63:Alexa Fluor®488
Specificity:	CD63
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	AD1
Isotype:	IgG1
Quantity:	25 TESTS

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	■			

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 Alexa Fluor 488 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05mg/ml		
Immunogen	RBL-2H3 rat basophilic leukaemia cell line.		
External Database Links	UniProt: P28648 Related reagents		
	Entrez Gene:		

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 10 ⁶ cells in 100ul.
References	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>. J Exp Med. 201: 385-96. 2. 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. 3. 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. 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. J Biol Chem. 290(9): 5533-42. 5. 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.
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.
Shelf Life	18 months from date of despatch.
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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:Alexa Fluor® 488 \(MCA1209A488\)](#)

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