

Datasheet: MCA4714A488

BATCH NUMBER 153139

Description:	RAT ANTI MOUSE CD39:Alexa Fluor® 488
Specificity:	CD39
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	Duha59
Isotype:	IgG2a
Quantity:	100 TESTS/1ml

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	▪			
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	Mouse		
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	A CD39 expression construct and a final boost with CD39-transfected HEK cells.
External Database Links	<p>UniProt: P55772 Related reagents</p> <p>Entrez Gene: 12495 Entpd1 Related reagents</p>
Synonyms	Cd39
RRID	AB_2099924
Fusion Partners	Spleen cells from immunised rats were fused with cells of the Sp2/0 myeloma cell line.
Specificity	Rat anti Mouse CD39 antibody, clone Duha59 recognizes CD39, also known as Ectonucleoside triphosphate diphosphohydrolase 1 (ENTPD1) or Ecto-ATP diphosphohydrolase. CD39 was first described as a B cell activation marker, but is also expressed on natural killer cells, monocytes, dendritic cells and subsets of activated T cells. It is critical in the regulation of leukocyte accumulation within hypoxic tissues and plays a role in the thromboregulation of platelet and endothelial function activation. CD39, along with CD73, distinguishes regulatory T cells from other resting or activated T cells and plays a role in the suppressive action of regulatory T cells.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
Further Reading	1. Dwyer, K.M. <i>et al.</i> (2007) CD39 and control of cellular immune responses. Purinergic Signal. 3 (1-2): 171-80.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
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Health And Safety Information

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA4714A488>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA1212A488\)](#)

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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

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