

Datasheet: MCA4714PE

Description:	RAT ANTI MOUSE CD39:RPE
Specificity:	CD39
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	Duha59
Isotype:	IgG2a
Quantity:	100 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	▪			
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 R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1.0ml distilled water						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
RPE 488nm laser	496	578					
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 5% Sucrose
Immunogen	A CD39 expression construct and a final boost with CD39-transfected HEK cells.
External Database Links	UniProt: P55772 Related reagents Entrez Gene: 12495 Entpd1 Related reagents
Synonyms	Cd39
RRID	AB_10846927
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	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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: 20487: https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

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'M375758:210107'

Printed on 07 Jan 2021

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