

Datasheet: MCA2296A488

Description:	RAT ANTI MOUSE CD49e:Alexa Fluor® 488
Specificity:	CD49e
Other names:	INTEGRIN ALPHA 5 CHAIN, VLA-5
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	MFR5 (5H10)
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	▪			Neat

Where this antibody 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 antibody 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		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	Mouse MC/9 cell line.
External Database Links	<p>UniProt: P11688 Related reagents</p> <p>Entrez Gene: 16402 Itga5 Related reagents</p>
RRID	AB_566820
Fusion Partners	Spleen cells from immunised Lewis rats were fused with cells of the Murine P3X63Ag8.653 myeloma.
Specificity	<p>Rat anti Mouse CD49e antibody, clone MFR5 (5H10) recognizes murine integrin alpha 5 (CD49e), which associates with the beta 1 integrin (CD29) to form the fibronectin receptor CD49e/CD29 (VLA-5).</p> <p>VLA-5 plays an important role in cell adhesion and migration and is expressed by mast cells, thymocytes, T-cells and monocytes. Rat anti Mouse CD49e antibody, clone MFR5 (5H10) has been reported to block CD49e mediated function (Kinashi and Springer 1994).</p>
Flow Cytometry	<p>Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR (BUF041A/B).</p>
References	<ol style="list-style-type: none"> 1. Kinashi, T. & Springer, T.A. (1994) Steel factor and c-kit regulate cell-matrix adhesion. Blood. 83 (4): 1033-8. 2. Cukierman, E. <i>et al.</i> (2001) Taking cell-matrix adhesions to the third dimension. Science. 294 (5547): 1708-12.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. 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:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

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

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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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'M376023:210114'

Printed on 09 Feb 2021

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