

Datasheet: MCA2296A647

Description:	RAT ANTI MOUSE CD49e:Alexa Fluor® 647
Specificity:	CD49e
Other names:	INTEGRIN ALPHA 5 CHAIN, VLA-5
Format:	ALEXA FLUOR® 647
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® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml		

Immunogen	Mouse MC/9 cell line.
External Database Links	UniProt: P11688 Related reagents Entrez Gene: 16402 Itga5 Related reagents
RRID	AB_566822
Fusion Partners	Spleen cells from immunised Lewis rats were fused with cells of the Murine P3X63Ag8.653 myeloma.
Specificity	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). 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. 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).
References	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	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. 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
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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
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1212A647\)](#)

Recommended Useful Reagents

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

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

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