

Datasheet: MCA2294A647T

BATCH NUMBER 0915

Description:	RAT ANTI MOUSE CD49d:Alexa Fluor® 647
Specificity:	CD49d
Other names:	INTEGRIN ALPHA 4 CHAIN, VLA-4
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	9C10 (MFR4.B)
Isotype:	IgG2a
Quantity:	25 TESTS/0.25ml

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 - 1/10

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 the appropriate negative/positive controls.

Target Species	Mouse					
Product Form	Purified IgG conjugat	Purified IgG conjugated to Alexa Fluor® 647 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm			
	Alexa Fluor®647	650	665			
Preparation Buffer Solution	Purified IgG prepared by affinity chromatography on Protein G from tissue supernatant Phosphate buffered saline					
eservative abilisers	0.09% Sodium Azide 1% Bovine Serum Albumin					
pprox. Protein	IgG concentration 0.0	05 mg/ml				

Concentrations **Immunogen** Mouse LyD9 haematopoietic progenitor cells. **External Database UniProt:** Links Q00651 Related reagents **Entrez Gene:** 16401 Itga4 Related reagents **RRID** AB_1102143 **Fusion Partners** Spleen cells from immunised Lewis rats were fused with cells of the mouse P3X63Ag8.653 myeloma cell line. **Specificity** Rat anti Mouse CD49d monoclonal antibody, clone 9C10 recognizes murine alpha 4 integrin (CD49d) also known as VLA-4 subunit alpha, CD49d is a ~150 kDa single pass type I transmembrane glycoprotein that can associate with either beta 1 integrin (CD29) or beta 7 integrin to form heterodimers CD49d/CD29 (VLA-4) and alpha4/beta7 (LPAM-1) respectively. CD49d is expressed on most lymphocytes, granulocytes, monocytes and thymocytes. The primary ligands for CD49d are CD106 (VCAM-1), fibronectin and MAdCAM-1. Clone 9C10 (MFR4.B) is reported to significantly inhibit binding of CD49d to CD106 but only when used in combination with clone R1-2 (Kinashi and Springer 1994). Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ 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. Bellingan, G.J. et al. (2002) Adhesion molecule-dependent mechanisms regulate the rate of macrophage clearance during the resolution of peritoneal inflammation. J Exp Med. 196 (11): 1515-21. **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.

product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing as this may denature the antibody. Should this

12 months from date of despatch

Guarantee

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2294A647T

10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL: Alexa Fluor® 647 (MCA1212A647)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M366571:200529'

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