

Datasheet: MCA2514A647T

Description:	MOUSE ANTI HUMAN CD47:Alexa Fluor® 647		
Specificity:	CD47		
Other names:	SIRP LIGAND		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	1/1A4		
Isotype:	lgG2b		
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 <u>www.bio-rad-antibodies.com/protocols</u> .				
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				Neat - 1/5
	Where this product has	s not been test	ed for u	se in a particular tech	inique this does not
	necessarily exclude its a guide only. It is recor system using appropria	nmended that	the use	r titrates the product f	g dilutions are given as or use in their own
Target Species	Human				
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid				
Max Ex/Em	Fluorophore	Excitation Max	k (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	0.09% Sodium Azide (NaN ₃)				
Stabilisers 1% Bovine Serum Albumin					
Approx. Protein Concentrations	IgG concentration 0.05mg/ml				

Immunogen	Human erythrocytes.		
External Database Links	UniProt: <u>Q08722</u> <u>Related reagents</u> Entrez Gene: <u>961</u> CD47 <u>Related reagents</u>		
Synonyms	MER6		
RRID	AB_1102098		
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line.		
Specificity	 Mouse anti Human CD47 antibody, clone 1/1A4 recognizes human CD47, also known as integrin-associated protein, a 50kDa glycoprotein expressed on all haematopoietic cell lines, epithelial cells, endothelial cells, fibroblasts and many tumour cell lines. CD47 is involved in several cellular processes including regulation of T cell and dendritic cell activation, regulation of neutrophil (PMN) chemotaxis, caspase-independent apoptosis, and may act as a signal transducer in the regulation of cation fluxes across cell membranes. CD47 has been identified as a ligand for the inhibitory macrophage receptor known as signal regulatory protein alpha (SIRPalpha) and as a receptor for thrombospondin-1. Cross-linking of CD47 with clone 1/1A4 co-stimulates the proliferation of T cells (Waclavicek <i>et al.</i> 1993). 		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.		
References	1. Waclavicek, M. <i>et al.</i> (1997) T cell stimulation via CD47: agonistic and antagonistic effects of CD47 monoclonal antibody 1/1A4. <u>J Immunol. 159 (11): 5345-54.</u>		
Further Reading	1. Frazier, W.A. <i>et al.</i> (1999) The thrombospondin receptor integrin-associated protein (CD47) functionally couples to heterotrimeric Gi. <u>J Biol Chem. 274 (13): 8554-60.</u>		
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.		
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/MCA2514A647T 10041

Regulatory For research purposes only	
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Related Products

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 (MCA691A647)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		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 'M385436:210513'

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