

Datasheet: MCA2514A488

BATCH NUMBER 149625

Description:	MOUSE ANTI HUMAN CD47:Alexa Fluor® 488
Specificity:	CD47
Other names:	SIRP LIGAND
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	1/1A4
Isotype:	IgG2b
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 - 1/10

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	Human		
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 Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin		
Approx. Protein	IgG concentration 0.05mg/ml		

Concentrations

Immunogen Human erythrocytes.

External Database Links

UniProt:

[Q08722](#) [Related reagents](#)

Entrez Gene:

[961](#) CD47 [Related reagents](#)

Synonyms MER6

RRID AB_999251

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 *et al.* 1993](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References 1. Waclavicek, M. *et al.* (1997) T cell stimulation via CD47: agonistic and antagonistic effects of CD47 monoclonal antibody 1/1A4. [J Immunol. 159 \(11\): 5345-54.](#)

Further Reading 1. Frazier, W.A. *et al.* (1999) The thrombospondin receptor integrin-associated protein (CD47) functionally couples to heterotrimeric Gi. [J Biol Chem. 274 \(13\): 8554-60.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product is photosensitive and should be protected from light.
This product should be stored undiluted. 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: <https://www.bio-rad-antibodies.com/SDS/MCA2514A488>
10041

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA691A488\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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