

Datasheet: MCA2514A488

BATCH NUMBER 160692

| 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 conjugate | Purified IgG conjugated to Alexa Fluor®488 - liquid | | | |
| Max Ex/Em | Fluorophore | Excitation Max (nm) | Emission Max (nm | | |
| | Alexa Fluor®488 | 495 | 519 | | |
| Preparation Buffer Solution | Purified IgG prepared supernatant Phosphate buffered sa | | raphy on Protein A f | | |
| Pura a martina | · | | | | |
| Preservative Stabilisers | | 0.09% Sodium Azide (NaN₃)1% Bovine Serum Albumin | | | |
| Approx. Protein | IgG concentration 0.0 | 5mg/ml | | | |

Concentrations **Immunogen** Human erythrocytes. **External Database UniProt:** Links 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** 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

Guarantee 12 months from date of despatch

protected from light.

frost-free freezers is not recommended. This product is photosensitive and should be

Acknowledgements

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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)

America

North & South Tel: +1 800 265 7376 Fax: +1 919 878 3751 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M394963:220223'

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