

Datasheet: MCA1053PET

Description:	MOUSE ANTI HUMAN CD48:RPE
Specificity:	CD48
Other names:	BLAST-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEM-102
Isotype:	IgG1
Quantity:	25 TESTS

Product Details

RRID AB_2075183

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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species Human

Species Cross Reactivity Reacts with: Rhesus Monkey
N.B. Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution Reconstitute in 0.25 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

Preparation Purified IgG prepared by affinity chromatography on Protein A.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃)
 1% Bovine Serum Albumin
 5% Sucrose

External Database Links **UniProt:**

Entrez Gene:

[962](#) CD48 [Related reagents](#)

Synonyms	BCM1, BLAST1
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Specificity	<p>Mouse anti Human CD48 antibody, clone MEM-102 recognizes to the 45kDa leucocyte surface glycoprotein specific for the CD48 antigen which is closely related to the activation antigen, Blast-1.</p> <p>Mouse anti Human CD48 antibody, clone MEM-102 is useful in the detection of CD48 positive cells and may be used in studies to differentiate haemopoietic tumors, sarcomas and melanomas.</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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References	<ol style="list-style-type: none">1. Horejsí, V. <i>et al.</i> (1988) Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). Folia Biol (Praha). 34 (1): 23-34.2. Korínek, V. <i>et al.</i> (1991) The human leucocyte antigen CD48 (MEM-102) is closely related to the activation marker Blast-1. Immunogenetics. 33 (2): 108-12.3. Cinek, T. & Horejsí, V. (1992) The nature of large noncovalent complexes containing glycosyl-phosphatidylinositol-anchored membrane glycoproteins and protein tyrosine kinases. J Immunol. 149 (7): 2262-70.4. Staffler, G. <i>et al.</i> (2003) Selective inhibition of T cell activation via CD147 through novel modulation of lipid rafts. J Immunol. 171 (4): 1707-14.5. Larochelle, A. <i>et al.</i> (2011) Human and rhesus macaque hematopoietic stem cells cannot be purified based only on SLAM family markers. Blood. 117:1550-4.6. Enose-Akahata, Y. <i>et al.</i> (2009) High expression of CD244 and SAP regulated CD8 T cell responses of patients with HTLV-I associated neurologic disease. PLoS Pathog. 5: e1000682.7. Fukushima, K. <i>et al.</i> (2005) Functional role played by the glycosylphosphatidylinositol anchor glycan of CD48 in interleukin-18-induced interferon-gamma production. J Biol Chem. 280: 18056-62.8. Kanuga, N. <i>et al.</i> (2002) Characterization of genetically modified human retinal pigment epithelial cells developed for in vitro and transplantation studies. Invest Ophthalmol Vis Sci. 43: 546-55.
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Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.</p> <p>DO NOT FREEZE.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Shelf Life	12 months from date of reconstitution.
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Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)

HUMAN SEROBLOCK (BUF070B)

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