



## Datasheet: MCA1053APC

<b>Description:</b>	MOUSE ANTI HUMAN CD48:APC
<b>Specificity:</b>	CD48
<b>Other names:</b>	BLAST-1
<b>Format:</b>	APC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MEM-102
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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](http://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 appropriate negative/positive controls.

<b>Target Species</b>	Human						
<b>Species Cross Reactivity</b>	Reacts with: Rhesus Monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species.						
<b>Product Form</b>	Purified IgG conjugated to Allophycocyanin (APC) - lyophilised						
<b>Reconstitution</b>	Reconstitute with 1ml distilled water						
<b>Max Ex/Em</b>	<table><thead><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr></thead><tbody><tr><td>APC</td><td>650</td><td>661</td></tr></tbody></table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	APC	650	661
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
APC	650	661					
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography.						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml						

**External Database  
Links**

**UniProt:**

[P09326](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

BCM1, BLAST1

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**Specificity**

**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.

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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. Horejsí, V. *et al.* (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. *et al.* (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. *et al.* (2003) Selective inhibition of T cell activation via CD147 through novel modulation of lipid rafts. [J Immunol. 171 \(4\): 1707-14.](#)
5. Larochele, A. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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**

Prior to reconstitution store at +4°C.  
After reconstitution store at +4°C.  
DO NOT FREEZE. 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.

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**Shelf Life**

18 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:APC \(MCA928APC\)](#)

## Recommended Useful Reagents

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

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

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