

Datasheet: MCA1054PET

Description:	MOUSE ANTI HUMAN CD59:RPE
Specificity:	CD59
Other names:	HRF, PROTECTIN
Format:	RPE
Product Type:	Monoclonal Antibody
Product Type: Clone:	Monoclonal Antibody MEM-43
	,

# **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 <a href="https://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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. 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.

Target Species	Human		
Product Form	Purified IgG conjugate	ed to R. Phycoerythrir	n (RPE) - lyophilised
Reconstitution	Reconstitute with 0.25	5 ml distilled water	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared	by affinity chromatog	raphy on Protein A
Buffer Solution	Phosphate buffered s	aline	
Preservative	0.09% Sodium Azide	(NaN <sub>3</sub> )	
Stabilisers	1% Bovine Serum Albumin		
	5% Sucrose		
Immunogen	Thymocytes and T lyr	nphocytes.	
External Database			

Links

UniProt:

P13987

Related reagents

#### **Entrez Gene:**

966 CD59 Related reagents

### **Synonyms**

MIC11, MIN1, MIN2, MIN3, MSK21

### Specificity

Mouse anti Human CD59 antibody, clone MEM-43 recognizes CD59, a glycosyl-

phosphatidylinositol (GPI) anchored membrane protein also known as membrane attack complex inhibition factor. CD59 blocks the formation of the complement membrane attack complex (MAC) by binding of C8a and C9. CD59 is found on all types of leucocytes including platelets and is also expressed on many non-haematopoietic cells.

The epitope recognized by Mouse anti Human CD59 antibody, clone MEM-43 is lost after reduction therefore, non-reducing conditions are required for western blotting techniques.

### Flow Cytometry

Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

#### References

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- 4. 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.
- 5. Stefanová, I. & Horejsí, V. (1991) Association of the CD59 and CD55 cell surface glycoproteins with other membrane molecules. <u>J Immunol</u>. 147 (5): 1587-92.
- 6. Shaw, M.L. et al. (2008) Cellular proteins in influenza virus particles. PLoS Pathog. 4: e1000085.
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- 8. Jolly, C, and Sattentau. Q.J. (2005) Human Immunodeficiency Virus Type 1 Virological Synapse Formation in T Cells Requires Lipid Raft Integrity J Virol. 79: 12088-94.
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- 10. Bonnon, C. *et al.* (2010) Selective export of human GPI-anchored proteins from the endoplasmic reticulum. <u>J Cell Sci. 123: 1705-15.</u>
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- 15. Takemoto, M. *et al.* (2007) Human herpesvirus 7 infection increases the expression levels of CD46 and CD59 in target cells. J Gen Virol. 88: 1415-22.
- 16. Chong, Y.H. and Lee, M.J. (2000) Expression of complement inhibitor protein CD59 in human neuronal and glial cell lines treated with HIV-1 gp41 peptides. J Neurovirol. 6: 51-60.

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Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
Regulatory	For research purposes only

# Related Products

# **Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL:RPE (MCA929PE)

# Recommended Useful Reagents

**HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)** 

North & South Tel: +1 800 265 7376 America

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