

Datasheet: MCA723F

Description:	MOUSE ANTI HUMAN CD53:FITC
Specificity:	CD53
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MEM-53
Isotype:	IgG1
Quantity:	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.

	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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by ion exchange chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
External Database Links	UniProt:		
	P19397 Related reagents		
	Entrez Gene:		
	963 CD53 Related reagents		

Synonyms	MOX44, TSPAN25
Specificity	Mouse anti Human CD53 antibody, clone MEM-53 recognizes the human CD53 cell surface antigen, also known as Tetraspanin-25. CD53 is a 219 amino acid multi pass transmembrane glycoprotein of 32-42 kDa. CD53 is expressed by all leucocytes, but is absent from erythrocytes and platelets.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	1. Bazil, V. <i>et al.</i> (1989) Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two newly described broadly expressed glycoproteins MEM-53 and MEM-102. Folia Biol (Praha). 35 (5): 289-97. 2. Angelisová P <i>et al.</i> (1990) The human leucocyte surface antigen CD53 is a protein structurally similar to the CD37 and MRC OX-44 antigens. Immunogenetics. 32 (4): 281-5. 3. Mollinedo, F. <i>et al.</i> (1997) Recurrent infectious diseases in human CD53 deficiency. Clin Diagn Lab Immunol. 4: 229-31. 4. de Winde, C.M. <i>et al.</i> (2015) Multispectral imaging reveals the tissue distribution of tetraspanins in human lymphoid organs. Histochem Cell Biol. 144 (2): 133-46. 5. Matsumoto K <i>et al.</i> (1999) Functional expression of transmembrane 4 superfamily molecules on human eosinophils. Int Arch Allergy Immunol. 120 Suppl 1: 38-44. 6. Spring, F.A. <i>et al.</i> (2013) Tetraspanins CD81 and CD82 facilitate $\alpha 4\beta 1$-mediated adhesion of human erythroblasts to vascular cell adhesion molecule-1. PLoS One. 8 (5): e62654. 7. Tippet, E. <i>et al.</i> (2013) Characterization of tetraspanins CD9, CD53, CD63, and CD81 in monocytes and macrophages in HIV-1 infection. J Leukoc Biol. 93 (6): 913-20. 8. Zuidscherwoude, M. <i>et al.</i> (2015) The tetraspanin web revisited by super-resolution microscopy. Sci Rep. 5: 12201.
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

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

HUMAN SEROBLOCK (BUF070B)

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