

## Datasheet: MCA723F

<b>Description:</b>	MOUSE ANTI HUMAN CD53:FITC
<b>Specificity:</b>	CD53
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MEM-53
<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

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>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<b>Preparation</b>	Purified IgG prepared by ion exchange chromatography from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>External Database Links</b>	<b>UniProt:</b>		

**Entrez Gene:**

[963](#)   CD53   [Related reagents](#)

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<b>Synonyms</b>	MOX44, TSPAN25
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<b>RRID</b>	AB_321780
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<b>Specificity</b>	<b>Mouse anti Human CD53 antibody, clone MEM-53</b> 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.
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1 x 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>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. <a href="#">Folia Biol (Praha). 35 (5): 289-97.</a></li><li>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. <a href="#">Immunogenetics. 32 (4): 281-5.</a></li><li>3. Mollinedo, F. <i>et al.</i> (1997) Recurrent infectious diseases in human CD53 deficiency. <a href="#">Clin Diagn Lab Immunol. 4: 229-31.</a></li><li>4. de Winde, C.M. <i>et al.</i> (2015) Multispectral imaging reveals the tissue distribution of tetraspanins in human lymphoid organs. <a href="#">Histochem Cell Biol. 144 (2): 133-46.</a></li><li>5. Matsumoto K <i>et al.</i> (1999) Functional expression of transmembrane 4 superfamily molecules on human eosinophils. <a href="#">Int Arch Allergy Immunol. 120 Suppl 1: 38-44.</a></li><li>6. Spring, F.A. <i>et al.</i> (2013) Tetraspanins CD81 and CD82 facilitate α4β1-mediated adhesion of human erythroblasts to vascular cell adhesion molecule-1. <a href="#">PLoS One. 8 (5): e62654.</a></li><li>7. Tippett, E. <i>et al.</i> (2013) Characterization of tetraspanins CD9, CD53, CD63, and CD81 in monocytes and macrophages in HIV-1 infection. <a href="#">J Leukoc Biol. 93 (6): 913-20.</a></li><li>8. Zuidscherwoude, M. <i>et al.</i> (2015) The tetraspanin web revisited by super-resolution microscopy. <a href="#">Sci Rep. 5: 12201.</a></li></ol>
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<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA723F">https://www.bio-rad-antibodies.com/SDS/MCA723F</a> 10041
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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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