

## Datasheet: MCA2501

### BATCH NUMBER 1709

<b>Description:</b>	MOUSE ANTI HUMAN CD72
<b>Specificity:</b>	CD72
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Bu40
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 mg

## 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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (1)	▪			1/50
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

**(1) This product requires protein digestion pre-treatment of paraffin sections e.g. trypsin or pronase. Successful staining has also been accomplished using heat mediated antigen retrieval in citrate buffer pH6.0, see [Lorenzi et al.](#) for details**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P21854</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">971</a>    CD72    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_844512
<b>Specificity</b>	<b>Mouse anti Human CD72 antibody, clone Bu40</b> recognizes human CD72, a ~86 kDa cell surface homodimer expressed on B lymphocytes. CD72 is expressed on early B cell precursors, through to mature activated B cells, but is lost upon terminal differentiation to plasma cells.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Katira, A. <i>et al.</i> (1992) Occupancy of CD72 (the CD5 counterstructure) enhances interleukin-4-dependent CD23 expression in resting B lymphocytes. <a href="#">Immunology. 76 (3): 422-6.</a></li> <li>2. Lorenzi, T. <i>et al.</i> (2012) Placental expression of CD100, CD72 and CD45 is dysregulated in human miscarriage. <a href="#">PLoS One. 7 (5): e35232.</a></li> <li>3. Brown, M.H. &amp; Lacey, E. (2010) A ligand for CD5 is CD5. <a href="#">J Immunol. 185 (10): 6068-74.</a></li> <li>4. Svensson, H. <i>et al.</i> (1996) The cell surface phenotype of human natural interferon-alpha producing cells as determined by flow cytometry. <a href="#">Scand J Immunol. 44 (2): 164-72.</a></li> <li>5. Ling, N.R. &amp; Lowe, J.L. (1993) Is the activated T helper stimulus able to induce Ig isotype switching in cultured human B cells? <a href="#">Int Immunol. 5 (10): 1269-73.</a></li> <li>6. Brzezińska-błaszczyk, E. &amp; Bąbolewska, E. (2013) Stem cell factor-dependent mast cell proliferation, maturation and activity can be regulated by inhibitory receptors <a href="#">Centl Eur J of Immunol. 1: 134-40.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety</b>	Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/MCA2501>  
10040

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://www.bio-rad-antibodies.com/datasheets)  
'M367055:200529'

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