

Datasheet: MCA2501T

BATCH NUMBER 162444

Description:	MOUSE ANTI HUMAN CD72
Specificity:	CD72
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Bu40
Isotype:	IgG2a
Quantity:	25 µg

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

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

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

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
External Database Links	<p>UniProt: P21854 Related reagents</p> <p>Entrez Gene: 971 CD72 Related reagents</p>
RRID	AB_2075480
Specificity	Mouse anti Human CD72 antibody, clone Bu40 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Katira, A. <i>et al.</i> (1992) Occupancy of CD72 (the CD5 counterstructure) enhances interleukin-4-dependent CD23 expression in resting B lymphocytes. Immunology. 76 (3): 422-6. 2. Ling, N.R. & Lowe, J.L. (1993) Is the activated T helper stimulus able to induce Ig isotype switching in cultured human B cells? Int Immunol. 5 (10): 1269-73. 3. Svensson, H. <i>et al.</i> (1996) The cell surface phenotype of human natural interferon-alpha producing cells as determined by flow cytometry. Scand J Immunol. 44 (2): 164-72. 4. Brown, M.H. & Lacey, E. (2010) A ligand for CD5 is CD5. J Immunol. 185 (10): 6068-74. 5. Lorenzi, T. <i>et al.</i> (2012) Placental expression of CD100, CD72 and CD45 is dysregulated in human miscarriage. PLoS One. 7 (5): e35232. 6. Brzezińska-błaszczyk, E. & Bąbolewska, E. (2013) Stem cell factor-dependent mast cell proliferation, maturation and activity can be regulated by inhibitory receptors Centl Eur J of Immunol. 1: 134-40.
Storage	<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.</p>
Guarantee	12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA2501T>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [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 (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

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

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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)
'M397999:220622'

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