

Datasheet: MCA2501

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

	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**

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**

UniProt:

[P21854](#) [Related reagents](#)

Entrez Gene:

[971](#) CD72 [Related reagents](#)

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	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. Lorenzi, T. <i>et al.</i> (2012) Placental expression of CD100, CD72 and CD45 is dysregulated in human miscarriage. PLoS One. 7 (5): e35232. 3. Brown, M.H. & Lacey, E. (2010) A ligand for CD5 is CD5. J Immunol. 185 (10): 6068-74. 4. 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. 5. 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. 6. Brzezińska-błaszczak, 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	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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