

Datasheet: MCA833GA

BATCH NUMBER 164398

Description:	MOUSE ANTI BOVINE CD2
Specificity:	CD2
Other names:	LFA-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC42
Isotype:	lgG1
Quantity:	0.1 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	•			1/10 - 1/20
Immunohistology - Frozen	•			
Immunohistology - Paraffin (1)	-			
ELISA				
Immunoprecipitation	•			
Western Blotting			•	
Immunofluorescence				

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 antigen retrieval using heat treatment prior to staining of paraffin sections.

EDTA pH8.0 is recommended for this purpose.

Target Species	Bovine
Species Cross	Reacts with: Goat
Reactivity	N.B. Antibody reactivity and working conditions may vary between species. Cross
	reactivity is derived from testing within our laboratories, peer-reviewed publications or

	Turther information.
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 1.0 mg/ml
External Database Links	UniProt: Q148M9 Related reagents
Fusion Partners	Spleen cells from an immunised mouse were fused with cells of the mouse NS1 myeloma cell line
Specificity	Mouse anti Bovine CD2, clone CC42, recognizes the bovine homologue of human CD2.
	Clone CC42 inhibits rosetting with SRBC and stains cells in primary and secondary lymphoid organs in patterns consistent with those seen by human CD2 monoclonal antibodies.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
References	 Davis, W.C. & Splitter, G.S. (1991) Individual antigens of cattle. Bovine CD2 (BoCD2). Vet Immunol Immunopathol. 27: 43-50. Sopp, P. et al. (1991) Investigating monoclonal antibodies to bovine "null" cell antigens using two-colour immunofluorescence. Vet Immunol Immunopathol. 27 (1-3): 163-8. Eskra, L. et al. (1991) Effect of monoclonal antibodies on in vitro function of T-cell

personal communications from the originators. Please refer to references indicated for

further information.

in large numbers in the spleen, accumulates inefficiently in an artificial site of inflammation: correlation with lack of expression of E-selectin ligands and L-selectin. <u>J</u> Immunol.162: 4914-9.

- 8. Weiss, D.J. *et al.* (2006) Mucosal immune response in cattle with subclinical Johne's disease. Vet Pathol. 43: 127-35.
- 9. Grell, S.N. *et al.* (2005) Age-dependent differences in cytokine and antibody responses after experimental RSV infection in a bovine model. <u>Vaccine 23: 3412-23.</u>
- 10. Bednarek, D. *et al.* (2003) Effect of steroidal and non-steroidal anti-inflammatory drugs in combination with long-acting oxytetracycline on non-specific immunity of calves suffering from enzootic bronchopneumonia. <u>Vet Microbiol</u>. 96: 53-67.
- 11. Hamilton, C.A. *et al.* (2017) Frequency and phenotype of natural killer cells and natural killer cell subsets in bovine lymphoid compartments and blood. <u>Immunology. 151 (1):</u> 89-97.
- 12. Elsayed, M.S.A.E. *et al.* (2022) Real-time PCR using atpE, conventional PCR targeting different regions of difference, and flow cytometry for confirmation of *Mycobacterium bovis*. in buffaloes and cattle from the Delta area of Egypt. <u>BMC Microbiol.</u> 22 (1): 154.

Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/MCA833GA 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

Goat Anti Mouse IgG (STAR76...)

Goat Anti Mouse IgG (STAR70...)

Rabbit Anti Mouse IgG (STAR13...)

Goat Anti Mouse IgG (Fc) (STAR120...)

FITC

Rabbit Anti Mouse IgG (STAR9...)

FITC

Goat Anti Mouse IgG (STAR9...)

HRP

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M415480:230105'

Printed on 04 Apr 2025

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