

Datasheet: MCA831G

Description:	MOUSE ANTI BOVINE CD1w2
Specificity:	CD1w2
Other names:	CD1b
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC14
Isotype:	lgG1
Quantity:	0.25 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	<b>Suggested Dilution</b>
Flow Cytometry	•			1/50 - 1/100
Immunohistology - Frozen	•			
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation	•			
Western Blotting			•	

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.

Target Species	Bovine
Species Cross Reactivity	Reacts with: Goat, Sheep <b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
RRID	AB_931691
Fusion Partners	Spleen cells from immunised mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Bovine CD1w2 antibody, clone CC14 recognizes the CD1w2 cell surface
	antigen in bovine, sheep and goat.
	•
Flow Cytometry	antigen in bovine, sheep and goat.  Mouse anti Bovine CD1w2 antibody, clone CC14 immunoprecipitates two protein bands of ~12 kDa and ~46 kDa. In immunohistology the reagent stains cortical thymocytes and a minority of medullary thymocytes, with a pattern similar to antibodies of the CD1b cluster

- 32-4.
- 3. Summers, C. et al. (2012) The distribution of immune cells in the lungs of classical and atypical ovine pulmonary adenocarcinoma. Vet Immunol Immunopathol. 146: 1-7.
- 4. Brackenbury, L.S. et al. (2005) Identification of a cell population that produces alpha/beta interferon in vitro and in vivo in response to noncytopathic bovine viral diarrhea virus. J Virol. 79: 7738-44.
- 5. Glew, E.J. et al. (2003) Differential effects of bovine viral diarrhoea virus on monocytes and dendritic cells. J Gen Virol. 84: 1771-80.
- 6. Jörundsson, E. et al. (2000) Distribution of MHC-II and CD1 molecules in the skin of lambs and changes during experimentally-induced contact hypersensitivity. Vet Immunol Immunopathol. 74: 87-101.
- 7. Pirson, C. et al. (2012) Differential effects of Mycobacterium bovis derived polar and apolar lipid fractions on bovine innate immune cells. Vet Res. 43: 54.
- 8. Stephens, S.A. and Howard, C.J. (2002) Infection and transformation of dendritic cells from bovine afferent lymph by Theileria annulata. Parasitology. 124: 485-93.
- 9. Valheim, M. et al. (2002) Lesions in subclinical paratuberculosis of goats are associated with persistent gut-associated lymphoid tissue. J Comp Pathol. 127: 194-202.
- 10. Corripio-Miyar, Y. et al. (2015) Phenotypic and functional analysis of monocyte populations in cattle peripheral blood identifies a subset with high endocytic and

allogeneic T-cell stimulatory capacity. Vet Res. 46 (1): 112.

11. Corripio-miyar, Y. et al. (2017) 1,25-Dihydroxyvitamin D3 modulates the phenotype and function of Monocyte derived dendritic cells in cattle. BMC Vet Res. 13 (1): 390.

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** Material Safety Datasheet documentation #10040 available at: Information https://www.bio-rad-antibodies.com/SDS/MCA831G 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 (STAR70...) **FITC** 

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

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

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

FITC, HRP

Goat Anti Mouse IgG (STAR76...) RPE Rabbit Anti Mouse IgG (STAR13...) **HRP** 

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

#### **Recommended Negative Controls**

#### MOUSE IgG1 NEGATIVE CONTROL (MCA928)

North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody\_sales\_us@bio-rad.com

Email: antibody\_sales\_uk@bio-rad.com

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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 'M381509:210512'

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