

Datasheet: MCA1647G

Description:	MOUSE ANTI BOVINE CD1w3
Specificity:	CD1w3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC43
lsotype:	lgG2b
Quantity:	0.25 mg

Product Details

RRID	AB_905939					
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.					
	recommendations, please	Yes	No	Not Determined	Suggested Dilution	
	Flow Cytometry	•		not Botonninou	1/100	
	Immunohistology - Frozen					
	Immunohistology - Paraffin					
	ELISA					
	Immunoprecipitation	-				
	Western Blotting					
	Where this antibody has n	ot been tes	sted for use	in a particular technique	e this does not necessarily	
	exclude its use in such pro	ocedures. S	Suggested v	working dilutions are give	en as a guide only. It is	
	recommended that the use	er titrates th	ne antibody	for use in their own syst	em using appropriate	
	negative/positive controls.					
Target Species	Bovine					
Species Cross Reactivity	Reacts with: Goat, Sheep N.B. Antibody reactivity ar	nd working	conditions	may vary between specie	es.	
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	lgG concentration 1.0 mg/	ml				

Concentrations

Specificity	Mouse anti Bovine CD1w3 antibody, clone CC43 recognises the bovine CD1w3 cell surface antigen, a ~44kDa molecule expressed as a heterodimer with beta 2 microglobulin.			
	Bovine CD1w3 is expressed by immature cortical thymocytes but not by mature CD2+ or WC1+ cells in peripheral lymphoid tissues. It is also expressed by B cells, monocytes and subsets of dendritic cells. Further refinement of the binding specificity of Mouse anti Bovine CD1w3 antibody, clone CC43 indicates that the antibody binds to the bovine CD1d molecule (<u>Nguyen 2013</u>). Bovine Cd1d binds short chain glycosphingolipids (<u>Wang <i>et al.</i> 2012</u>).			
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.			
References	 Howard, C.J. <i>et al.</i> (1993) A new bovine leukocyte antigen cluster comprising two monoclonal antibodies, CC43 and CC118, possibly related to CD1. <u>Vet Immunol Immunopathol. 39: 69-76.</u> Naessens, J. <i>et al.</i> (1993) Cross-reactivity of workshop antibodies with cells from domestic and wild ruminants. <u>Vet Immunol Immunopathol. 39 (1-3): 283-90</u>. Naessens, J. <i>et al.</i> (1997) Nomenclature and characterization of leukocyte differentiation antigens in ruminants. <u>Immunol Today. 18 (8): 365-8.</u> Howard, C.J. & Naessens, J. (1993) Summary of workshop findings for cattle (tables 1 and 2). <u>Vet Immunol Immunopathol. 39 (1-3): 25-47.</u> Nguyen, T.K. <i>et al.</i> (2013) The bovine CD1D gene has an unusual gene structure and is expressed but cannot present α-galactosylceramide with a C26 fatty acid. <u>Int Immunol. 25: 91-8.</u> Van Rhijn, I. <i>et al.</i> (2006) The bovine CD1 family contains group 1 CD1 proteins, but no functional CD1d. <u>J Immunol. 176: 4888-93.</u> Rhind, S.M. <i>et al.</i> (1996) Discrimination of two subsets of CD1 molecules in the sheep. <u>Vet Immunol Immunopathol. 52: 265-70.</u> Gibson, A. <i>et al.</i> (2012) Identification of a lineage negative cell population in bovine peripheral blood with the ability to mount a strong type I interferon response. <u>Dev Comp Immunol. 36: 332-41.</u> Goldfinch, N. <i>et al.</i> (2000) Accessory cell populations in draining lymph nodes of lambs in the elicitation phase of DNCB-induced contact hypersensitivity. <u>Vet Immunol Immunopathol. 76: 75-88.</u> Jörundsson, E. (2000) Distribution of MHC-II and CD1 molecules in the skin of lambs and changes during experimentally-induced contact hypersensitivity. <u>Vet Immunol Immunopathol. 74: 87-101.</u> 			
Storage	Store at +4°C or at -20°C if preferred.			
	This product should be stored undiluted.			
	Storage in frost free freezers is not recommended. 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: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</u>			
Regulatory	For research purposes only			

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87) <u>Alk. Phos.</u> , <u>HRP</u>				
Goat Anti Mouse IgG (STAR77)	HRP			
Rabbit Anti Mouse IgG (STAR12)	RPE			
Rabbit Anti Mouse IgG (STAR8)	DyLight®800			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (STAR76)	RPE			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Human Anti Mouse IgG2b (HCA038)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos.</u> , <u>DyLight®488</u> , <u>DyLight®549</u> ,			
	DyLight®649, DyLight®680, DyLight®800,			
	FITC, HRP			

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

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
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	ad.com	Email: antibody_sales_de@bio-rad.com

'M334386:181127'

Printed on 02 Jan 2019

© 2019 Bio-Rad Laboratories Inc | Legal | Imprint