Datasheet: MCA2338GA BATCH NUMBER 167942

Description:	MOUSE ANTI BOVINE CD13
Specificity:	CD13
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CC81
lsotype:	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	/ww.bio-			
	rad-antibodies.com/proto	<u>cols</u> .			
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	•			1/100 - 1/1000
	Immunohistology - Frozen	•			1/25 - 1/50
	Immunohistology - Paraffin			•	
	ELISA			•	
	Immunoprecipitation				
	Western Blotting				
	Where this product has n	ot been t	ested for	use in a particular tecł	nnique this does not
	necessarily exclude its us	se in such	n procedu	res. Suggested workin	ng dilutions are given as
	a guide only. It is recomm		•		•
	system using appropriate			•	
Target Species	Bovine				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by supernatant	affinity cł	nromatogi	aphy on Protein A fror	m tissue culture
Buffer Solution	Phosphate buffered salin	e			
Preservative Stabilisers	0.09% sodium azide (Nal	N ₃)			
Carrier Free	Yes				

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	Cells from cattle intestine.		
External Database Links	UniProt: <u>P79098</u> <u>Related reagents</u>		
	Entrez Gene: <u>404191</u> ANPEP <u>Related reagents</u>		
Synonyms	APN		
Specificity	Mouse anti bovine CD13, clone CC81 , recognises bovine CD13, a 150 kDa type II membrane protein shown to be a metallopeptidase in humans. In cattle the antigen recognised by clone CC81 is primarily expressed on enterocytes and cells with a dendritic morphology in the small intestine. Clone CC81 also defines a subpopulation of dendritic cells in afferent lymph that are CC81 Ag +ve and SIRPalpha -ve, which show differences in their capacities to stimulate T cells and cytokine synthesis compared to the CC81 Ag –ve SIRPalpha +ve dendritic cells.		
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in $100µl$		
References	 Howard, C.J. <i>et al.</i> (1997) Identification of two distinct populations of dendritic cells in afferent lymph that vary in their ability to stimulate T cells. J Immunol. 159 (11): 5372-82. Hope, J.C. <i>et al.</i> (2001) Differences in the induction of CD8+ T cell responses by subpopulations of dendritic cells from afferent lymph are related to IL-1 alpha secretion. J Leukoc Biol. 69 (2): 271-9. Stephens, S. A. <i>et al.</i> (2003) Differences in cytokine synthesis by the sub-populations of dendritic cells from afferent lymph. Immunology. 110: 48-57. Bastos, R.G. <i>et al.</i> (2008) Bovine NK cells acquire cytotoxic activity and produce IFN-gamma after stimulation by <i>Mycobacterium bovis</i> BCG or <i>Babesia bovis</i>-exposed splenic dendritic cells. Vet Immunol Immunopathol. 124: 302-12. Schneider DA <i>et al.</i> (2011) Dynamics of bovine spleen cell populations during the acute response to <i>Babesia bovis</i> infection: an immunohistological study. Parasite Immunol. 33 (1): 34-44. Fries, P.N. <i>et al.</i> (2011) Age-related changes in the distribution and frequency of myeloid and T cell populations in the small intestine of calves. Cell Immunol. 271 (2): 428-37. Fries, P. <i>et al.</i> (2011) Mucosal dendritic cell subpopulations in the small intestine of newborn calves. Dev Comp Immunol. 35 (10): 1040-51. Toka, F.N. <i>et al.</i> (2011) Rapid and transient activation of γδ T cells to IFN-γ production, NK cell-like killing, and antigen processing during acute virus infection. J Immunol. 186 (8): 4853-61. 		
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/MCA2338GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE			
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
Goat Anti Mouse IgG (STAR76)	RPE			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488, DyLight®550,</u>			
	DyLight®650, DyLight®680, DyLight®800,			
	FITC, HRP			
Goat Anti Mouse IgG (STAR77)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Recommended Negative Controls				

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
	Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_uk@bio-rad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M429753:240424'

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