Datasheet: MCA5779GA BATCH NUMBER 159418

Description:	MOUSE ANTI BOVINE CD28		
Specificity:	CD28		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	CC219		
lsotype:	lgG1		
Quantity:	0.1 mg		

Product Details

Applications	This product has been reported to work in the following applications. This informa					
	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 <u>www.bio-</u>					
	rad-antibodies.com/protocols.					
	Yes No Not Determined Suggested Dilution					

		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/25 - 1/200
	Immunohistology - Frozen			•	
	Immunohistology - Paraffin				
	ELISA			•	
	Immunoprecipitation			•	
	Western Blotting				
	Where this product has r	not been t	tested for	use in a particular tech	nique this does not
	necessarily exclude its u a guide only. It is recomn system using appropriate	nended tl	nat the us	er titrates the product f	
Target Species	Bovine				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G			raphy on Protein G	
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide				
Carrier Free	Yes				

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml				
Immunogen	Plasmid DNA encoding the bovine CD28 gene				
External Database Links	UniProt: Q28071 Related reagents Entrez Gene: 281050 CD28 Related reagents				
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the SP/2/0 myeloma cell line				
Specificity	Mouse anti Bovine CD28, clone CC219 , recognizes the bovine homologue of human CD28, a co-stimulatory cell surface molecule expressed by T cell subsets. CD28 is the receptor for CD80 (B7.1) and CD86 (B7.2). CD28 is involved in increased production of IL-4 and IL-10 in T cells.				
	Mouse anti Bovine CD28, clone CC219 is able to stimulate bovine T cells in combination with anti-bovine CD3. For functional assays it is recommended to use the low endotoxin and preservative free format of this antibody, <u>MCA5779EL</u> .				
	Mouse anti Bovine CD28, clone CC219 has previously been published under the alternative clone designation F848EC4 (<u>Hogg <i>et al.</i> 2011</u>).				
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul				
References	 Hogg, A.E. <i>et al.</i> (2011) Characterization of age-related changes in bovine CD8+ T-cells. <u>Vet Immunol Immunopathol. 140 (1-2): 47-54.</u> Palomo, F.R. (2015) Study of the Effects Caused by BVDV and BHV-1 on Antigen- Presenting Cells by Means of <i>In Vivo</i> and <i>In Vitro</i> Experimental Models. <u>Tesis Doctoral,</u> <u>Facultad de Veterinaria, Universidad de Córdoba</u> Risalde, M.A. <i>et al.</i> (2020) BVDV permissiveness and lack of expression of co-stimulatory molecules on PBMCs from calves pre-infected with BVDV. <u>Comp Immunol</u> <u>Microbiol Infect Dis. 68: 101388.</u> 				
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/MCA5779GA 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			
Rabbit Anti Mouse IgG (STAR13)	HRP			
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488, DyLight®550,</u>			
	<u>DyLight®650</u> , <u>DyLight®680</u> , <u>DyLight®800</u> ,			
	<u>FITC, HRP</u>			
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>			
Goat Anti Mouse IgG (STAR77)	HRP			
Goat Anti Mouse IgG (Fc) (STAR120)	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
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	d.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 'M381321:210512'

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