# Datasheet: MCA5779GA BATCH NUMBER 1706

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

## **Product Details**

Applications	This product has been reported to work in the following applications. This information					
	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 not been tested for use in a particular technique this d					
	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.					
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 immunised Balb/c mice were fused with cells of the SP/2/0 myeloma cell line
Specificity	<b>Mouse anti Bovine CD28, clone CC219</b> , 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 studies 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 $1 \times 10^{6}$ cells in 100ul
References	<ol> <li>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></li> <li>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></li> </ol>
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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**

		DDE					
Rabbit Ar	iti Mouse IgG (STAR12)	RPE					
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>							
Goat Anti	Mouse IgG (STAR76)	RPE					
Rabbit Ar	iti Mouse IgG (STAR13)	<u>HRP</u>					
Goat Anti	Mouse IgG (STAR70)	<u>FITC</u>					
Goat Anti	Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®4	<u>88, DyLight®550,</u>				
		DyLight®650, DyLight	<u>8680, DyLight®80</u>	<u>0</u> ,			
		<u>FITC, HRP</u>					
Rabbit Ar	iti Mouse IgG (STAR9)	<u>FITC</u>					
Goat Anti	Mouse IgG (STAR77)	HRP					
Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC, HRP</u>							
Recommended Negative Controls							
MOUSE IgG1 NEGATIVE CONTROL (MCA928)							
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North & South	Tel: +1 800 265 7376 Worldwin	de 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 73		Fax: +49 (0) 89 8090 95 50			
	Email: antibody_sales_us@bio-rad.com	Email: antibody_sales_ul	k@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							
'M368384:200529'							

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