

Datasheet: MCA5779EL

Description:	MOUSE ANTI BOVINE CD28:Low Endotoxin
Specificity:	CD28
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	CC219
Isotype:	IgG1
Quantity:	0.5 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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/25 - 1/200
Immunoprecipitation			■	
Western Blotting			■	
Functional Assays	■			5ug/ml

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
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present.
Carrier Free	Yes
Endotoxin Level	<0.01EU/ug
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Plasmid DNA encoding the bovine CD28 gene
External Database	UniProt:

Links

[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	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 studies it is recommended to use the low endotoxin and preservative free format of this antibody, MCA5779EL. Mouse anti Bovine CD28, clone CC219 has previously been published under the alternative clone designation F848EC4 (Hogg et al. 2011).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Hogg, A.E. <i>et al.</i> (2011) Characterization of age-related changes in bovine CD8+ T-cells. Vet Immunol Immunopathol. 140 (1-2): 47-54. 2. 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. Tesis Doctoral, Facultad de Veterinaria, Universidad de Córdoba
Storage	Store at -20°C only. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA928EL\)](#)

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