

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	< 0.01 EU/ug
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Plasmid DNA encoding the bovine CD28 gene

External Database Links

UniProt:

[Q28071](#) [Related reagents](#)

Entrez Gene:

[281050](#) CD28 [Related reagents](#)

RRID AB_11152767

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 1×10^6 cells in 100ul.

References

1. Hogg, A.E. *et al.* (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 *In Vivo* and *In Vitro* Experimental Models. [Tesis Doctoral, Facultad de Veterinaria, Universidad de Córdoba](#)
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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.

Guarantee 12 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 IgA IgM (STAR87...)	Alk. Phos. , HRP
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...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M368382:200529'

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