

## Datasheet: MCA5779PE

<b>Description:</b>	MOUSE ANTI BOVINE CD28:RPE
<b>Specificity:</b>	CD28
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CC219
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TEST

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Bovine		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1.0 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
	5% Sucrose		

<b>Immunogen</b>	Plasmid DNA encoding the bovine CD28 gene
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q28071</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">281050</a>    CD28    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_11152773
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the SP/2/0 myeloma cell line
<b>Specificity</b>	<p><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.</p> <p>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, <a href="#">MCA5779EL</a>.</p> <p>Mouse anti Bovine CD28, clone CC219 has previously been published under the alternative clone designation F848EC4 (<a href="#">Hogg et al. 2011</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Hogg, A.E. <i>et al.</i> (2011) Characterization of age-related changes in bovine CD8+ T-cells. <a href="#">Vet Immunol Immunopathol. 140 (1-2): 47-54.</a></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. <a href="#">Tesis Doctoral, Facultad de Veterinaria, Universidad de Córdoba</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: 20487: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Negative Controls

### MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA928PE)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto: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](https://bio-rad-antibodies.com/datasheets)

'M375602:210104'

**Printed on 18 May 2021**

---

© 2021 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)