

## Datasheet: MCA928PE

**BATCH NUMBER 1608**

<b>Description:</b>	MOUSE IgG1 NEGATIVE CONTROL:RPE
<b>Specificity:</b>	MOUSE IgG1 NEGATIVE CONTROL
<b>Format:</b>	RPE
<b>Product Type:</b>	Negative/Isotype Control
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS

## 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	■			*

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.

<b>Target Species</b>	Negative Control		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1 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 A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	
	5%	Sucrose	

**Specificity** **Mouse IgG1 negative control** is negative by flow cytometry on all human cells and cell lines tested. Further tests have also shown that this reagent is also suitable for use as a negative control with bovine (Maslanka *et al*, 2012), ovine, porcine ([Kapetanovic \*et al\*, 2012](#)), equine ([Jacks \*et al\*, 2007](#)), canine ([Maiolini \*et al\*, 2012](#)), lapine ([Pakandl \*et al\*, 2008](#)) and guinea-pig tissues.

***This reagent recognizes a rat cell surface marker, and therefore cannot be used as a negative control in this species.***

**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> separated cells or 100ul lysed whole peripheral blood.

- References**
1. Kupatt, C. *et al*. (2000) c7E3Fab reduces postischemic leukocyte-thrombocyte interaction mediated by fibrinogen. Implications for myocardial reperfusion injury. [Arterioscler Thromb Vasc Biol. 20 \(10\): 2226-32.](#)
  2. Dalli, J. *et al*. (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. [Blood. 112 \(6\): 2512-9.](#)
  3. Barratt-Due, A. *et al*. (2011) Ornithodoros moubata Complement Inhibitor Is an Equally Effective C5 Inhibitor in Pigs and Humans. [J Immunol. 187: 4913-9.](#)
  4. Kapetanovic, R. *et al*. (2012) Pig bone marrow-derived macrophages resemble human macrophages in their response to bacterial lipopolysaccharide. [J Immunol. 188: 3382-94.](#)
  5. Maiolini, A. *et al*. (2012) Toll-like receptors 4 and 9 are responsible for the maintenance of the inflammatory reaction in canine steroid-responsive meningitis-arteritis, a large animal model for neutrophilic meningitis. [J Neuroinflammation. 9: 226.](#)
  6. Maślanka, T. *et al*. (2012) The presence of CD25 on bovine WC1+ gammadelta T cells is positively correlated with their production of IL-10 and TGF-beta, but not IFN-gamma. [Pol J Vet Sci. 15 \(1\): 11-20.](#)
  7. Pakandl, M. *et al*. (2008) Immune response to rabbit coccidiosis: a comparison between infections with Eimeria flavescens and E. intestinalis. [Folia Parasitol \(Praha\). 55:1-6.](#)
  8. Jacks, S. *et al*. (2007) Experimental infection of neonatal foals with Rhodococcus equi triggers adult-like gamma interferon induction. [Clin Vaccine Immunol. 14:669-77](#)
  9. Kamble, N.M. *et al*. (2016) Interaction of a live attenuated *Salmonella gallinarum* vaccine candidate with chicken bone marrow-derived dendritic cells. [Avian Pathol. Jan 26:1-24. \[Epub ahead of print\]](#)
  10. Brace, P.T. *et al*. (2017) *Mycobacterium tuberculosis* subverts negative regulatory pathways in human macrophages to drive immunopathology. [PLoS Pathog. 13 \(6\): e1006367.](#)
  11. Topoluk, N. *et al*. (2017) Amniotic Mesenchymal Stromal Cells Exhibit Preferential Osteogenic and Chondrogenic Differentiation and Enhanced Matrix Production Compared With Adipose Mesenchymal Stromal Cells. [Am J Sports Med. 363546517706138.](#)
  12. Iwaszko-Simonik, A. *et al*. (2015) Expression of surface platelet receptors (CD62P and CD41/61) in horses with recurrent airway obstruction (RAO). [Vet Immunol Immunopathol. 164 \(1-2\): 87-92.](#)
  13. Arzi, B. *et al*. (2017) Therapeutic Efficacy of Fresh, Allogeneic Mesenchymal Stem Cells for Severe Refractory Feline Chronic Gingivostomatitis. [Stem Cells Transl Med. 6 \(8\): 1710-22.](#)

14. Taechangam, N. *et al.* (2021) Feline adipose-derived mesenchymal stem cells induce effector phenotype and enhance cytolytic function of CD8+ T cells. [Stem Cell Res Ther. 12 \(1\): 495.](#)
15. do Prado Duzanski, A.*et al.* (2022) Cell-mediated immunity and expression of MHC class I and class II molecules in dogs naturally infected by canine transmissible venereal tumor: Is there complete spontaneous regression outside the experimental CTVT? [Research in Veterinary Science. 145: 193-204.](#)

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<b>Storage</b>	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
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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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA928PE">https://www.bio-rad-antibodies.com/SDS/MCA928PE</a> 20487
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<b>Regulatory</b>	For research purposes only
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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](https://www.bio-rad-antibodies.com/datasheets)  
'M375700:210104'

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