

## Datasheet: MCA1212PE

|                      |                                |
|----------------------|--------------------------------|
| <b>Description:</b>  | RAT IgG2a NEGATIVE CONTROL:RPE |
| <b>Specificity:</b>  | RAT IgG2a NEGATIVE CONTROL     |
| <b>Format:</b>       | RPE                            |
| <b>Product Type:</b> | Negative/Isotype Control       |
| <b>Isotype:</b>      | IgG2a                          |
| <b>Quantity:</b>     | 100 TESTS                      |

## Product Details

**RRID** AB\_322676

**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 dilutes the antibody for use in their own system to a concentration equivalent to their test antibody.

**Target Species** Negative Control

**Product Form** Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

**Reconstitution** 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                      |

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide  
**Stabilisers** 1% Bovine Serum Albumin  
 5% Sucrose

**Immunogen** Human lymphocytes.

**Fusion Partners** Spleen cells from immunized DA rats were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.

**Specificity** **Rat IgG2a Negative Control antibody** is suitable for the assessment of the level of non-specific binding of rat IgG2a monoclonal antibodies to mouse cells.

Test results indicate Rat IgG2a Negative Control antibody is also suitable for use as a negative control with dog cells.

**N.B.** This antibody recognizes a human cell surface marker, and therefore is not suitable as a negative control in human cells or cell lines.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- References**
1. Sumagin, R. *et al.* (2008) Leukocyte-endothelial cell interactions are linked to vascular permeability via ICAM-1-mediated signaling. [Am J Physiol Heart Circ Physiol. 295: H969-H977.](#)
  2. Chiu, W.C. *et al.* (2011) Effects of dietary fish oil supplementation on cellular adhesion molecule expression and tissue myeloperoxidase activity in hypercholesterolemic mice with sepsis. [J Nutr Biochem. 20: 254-60.](#)
  3. Guilloteau, L.A. *et al.* (2003) Nramp1 is not a major determinant in the control of *Brucella melitensis* infection in mice. [Infect Immun. 71: 621-8.](#)
  4. Stapleton, T.W. *et al.* (2000) Investigation of the regenerative capacity of an acellular porcine medial meniscus for tissue engineering applications. [Tissue Eng Part A. 17: 231-42.](#)
  5. Park, S.W. *et al.* (2012) A1 adenosine receptor allosteric enhancer PD-81723 protects against renal ischemia-reperfusion injury. [Am J Physiol Renal Physiol. 303: F721-32.](#)
  6. Schmidt, E.P. *et al.* (2012) The pulmonary endothelial glycocalyx regulates neutrophil adhesion and lung injury during experimental sepsis. [Nat Med. 18 \(8\): 1217-23.](#)
  7. McConnell, M.J. *et al.* (2009) H2-K(b) and H2-D(b) regulate cerebellar long-term depression and limit motor learning. [Proc Natl Acad Sci U S A. 106: 6784-9.](#)
  8. Rabadi MM *et al.* (2016) Peptidyl arginine deiminase-4 deficient mice are protected against kidney and liver injury after renal ischemia and reperfusion. [Am J Physiol Renal Physiol. Jun 22: ajprenal.00254.2016. \[Epub ahead of print\]](#)
  9. Rabadi, M.M. *et al.* (2019) Peptidyl arginine deiminase-4 exacerbates ischemic AKI by finding NEMO (NFκB Essential Modulator). [Am J Physiol Renal Physiol. Apr 03 \[Epub ahead of print\].](#)

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**Storage** Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

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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**Guarantee** 12 months from date of reconstitution.

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**Health And Safety Information** Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA6005PE\)](#)

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