

Datasheet: MCA1212PE

BATCH NUMBER 165253

Description:	RAT IgG2a NEGATIVE CONTROL:RPE
Specificity:	RAT IgG2a NEGATIVE CONTROL
Format:	RPE
Product Type:	Negative/Isotype Control
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			*

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.

Target Species	Negative Control
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized
Reconstitution	Reconstitute with 1 ml distilled water

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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Buffer Solution	Phosphate buffered saline
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Preservative	0.09% sodium azide (NaN ₃)
Stabilisers	1% bovine serum albumin 5% sucrose

Immunogen	Human lymphocytes.
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RRID	AB_322676
Fusion Partners	Spleen cells from immunized DA rats were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.
Specificity	<p>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.</p> <p>Test results indicate Rat IgG2a Negative Control antibody is also suitable for use as a negative control with canine cells.</p> <p>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.</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 1. Sumagin, R. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2003) Nramp1 is not a major determinant in the control of <i>Brucella melitensis</i> infection in mice. Infect Immun. 71: 621-8. 4. Stapleton, T.W. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (2012) The pulmonary endothelial glycocalyx regulates neutrophil adhesion and lung injury during experimental sepsis. Nat Med. 18 (8): 1217-23. 7. McConnell, M.J. <i>et al.</i> (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, M. <i>et al.</i> (2016) Peptidyl arginine deiminase-4-deficient mice are protected against kidney and liver injury after renal ischemia and reperfusion. Am J Physiol Renal Physiol. 311 (2): F437-49. 9. Rabadi, M.M. <i>et al.</i> (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]. 10. Han, S.J. <i>et al.</i> (2020) Renal proximal tubular NEMO plays a critical role in ischemic acute kidney injury. JCI Insight. 5 (19)Sep 17 [Epub ahead of print].
Storage	<p>Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.</p> <p>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>

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #20487 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA1212PE>
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Regulatory For research purposes only

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