

## Datasheet: MCA1212

**BATCH NUMBER 148796**

<b>Description:</b>	RAT IgG2a NEGATIVE CONTROL
<b>Specificity:</b>	RAT IgG2a NEGATIVE CONTROL
<b>Format:</b>	Purified
<b>Product Type:</b>	Negative/Isotype Control
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	1 ml

## 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	■			*
Immunohistology - Frozen		■		
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting			■	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. \* It is recommended that the user dilutes the antibody for use in their own system to a concentration equivalent to their test antibody.

<b>Target Species</b>	Negative Control
<b>Product Form</b>	Purified IgG - liquid
<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 Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml

<b>Immunogen</b>	Human lymphocytes.
<b>RRID</b>	AB_322674
<b>Fusion Partners</b>	Spleen cells from immunized DA rats were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.
<b>Specificity</b>	<p><b>Rat IgG2a Negative Control antibody</b> 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><b>N.B.</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>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Sumagin, R. <i>et al.</i> (2008) Leukocyte-endothelial cell interactions are linked to vascular permeability via ICAM-1-mediated signaling. <a href="#">Am J Physiol Heart Circ Physiol. 295: H969-H977.</a></li> <li>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. <a href="#">J Nutr Biochem. 20: 254-60.</a></li> <li>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. <a href="#">Infect Immun. 71: 621-8.</a></li> <li>4. Stapleton, T.W. <i>et al.</i> (2000) Investigation of the regenerative capacity of an acellular porcine medial meniscus for tissue engineering applications. <a href="#">Tissue Eng Part A. 17: 231-42.</a></li> <li>5. Park, S.W. <i>et al.</i> (2012) A1 adenosine receptor allosteric enhancer PD-81723 protects against renal ischemia-reperfusion injury. <a href="#">Am J Physiol Renal Physiol. 303: F721-32.</a></li> <li>6. Schmidt, E.P. <i>et al.</i> (2012) The pulmonary endothelial glycocalyx regulates neutrophil adhesion and lung injury during experimental sepsis. <a href="#">Nat Med. 18 (8): 1217-23.</a></li> <li>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. <a href="#">Proc Natl Acad Sci U S A. 106: 6784-9.</a></li> <li>8. Rabadi MM <i>et al.</i> (2016) Peptidyl arginine deiminase-4 deficient mice are protected against kidney and liver injury after renal ischemia and reperfusion. <a href="#">Am J Physiol Renal Physiol. Jun 22: ajprenal.00254.2016. [Epub ahead of print]</a></li> <li>9. Rabadi, M.M. <i>et al.</i> (2019) Peptidyl arginine deiminase-4 exacerbates ischemic AKI by finding NEMO (NFkB Essential Modulator). <a href="#">Am J Physiol Renal Physiol. Apr 03 [Epub ahead of print].</a></li> <li>10. Han, S.J. <i>et al.</i> (2020) Renal proximal tubular NEMO plays a critical role in ischemic acute kidney injury. <a href="#">JCI Insight. 5 (19)Sep 17 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1212">https://www.bio-rad-antibodies.com/SDS/MCA1212</a> 10041
<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)  
'M364923:200529'

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