

## Datasheet: MCA1212B

**BATCH NUMBER 1709**

|                      |                                   |
|----------------------|-----------------------------------|
| <b>Description:</b>  | RAT IgG2a NEGATIVE CONTROL:Biotin |
| <b>Specificity:</b>  | RAT IgG2a NEGATIVE CONTROL        |
| <b>Format:</b>       | Biotin                            |
| <b>Product Type:</b> | Negative/Isotype Control          |
| <b>Isotype:</b>      | IgG2a                             |
| <b>Quantity:</b>     | 0.1 mg                            |

### 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.

\* 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 conjugated to Biotin - liquid                    |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein A |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                     |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide<br>1% Bovine Serum Albumin                 |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.1 mg/ml                                   |
| <b>Immunogen</b>                      | Human lymphocytes.  |
| <b>RRID</b>                           | AB_324474   |

|                        |   |
|------------------------|---|
| <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> <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.</p>  |

**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA1212B>  
10041

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**Regulatory** 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)  
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