

## Datasheet: MCA1212A700

<b>Description:</b>	RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 700
<b>Specificity:</b>	RAT IgG2a NEGATIVE CONTROL
<b>Format:</b>	ALEXA FLUOR® 700
<b>Product Type:</b>	Negative/Isotype Control
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## 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 to a concentration equivalent to their test reagent.

<b>Target Species</b>	Negative Control		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 700 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®700	702	723
<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</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	Human lymphocytes.		
<b>RRID</b>	AB_808778		
<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>	<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.		

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: ajrenal.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** Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety** Material Safety Datasheet documentation #10041 available at:  
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

## Information

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## Regulatory

For research purposes only

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