



Datasheet: MCA928A647

**BATCH NUMBER 157956**

<b>Description:</b>	MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647
<b>Specificity:</b>	MOUSE IgG1 NEGATIVE CONTROL
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Negative/Isotype Control
<b>Isotype:</b>	IgG1
<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 for use in their own system to a concentration equivalent to their test reagents.

<b>Target Species</b>	Negative Control		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A 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>RRID</b>	AB_324768		

<b>Specificity</b>	<p><b>Mouse IgG1 negative control</b> is negative by flow cytometry on all human cells and cell lines tested. Further tests have also shown that this reagent is also suitable for use as a negative control with bovine (Maslanka <i>et al.</i>, 2012), ovine, porcine (<a href="#">Kapetanovic <i>et al.</i> 2012</a>), equine (<a href="#">Jacks <i>et al.</i> 2007</a>), canine (<a href="#">Maiolini <i>et al.</i> 2012</a>), lapine (<a href="#">Pakandl <i>et al.</i> 2008</a>) and guinea-pig tissues.</p> <p><b><i>This reagent recognizes a rat cell surface marker, and therefore cannot be used as a negative control in this species.</i></b></p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Kupatt, C. <i>et al.</i> (2000) c7E3Fab reduces postischemic leukocyte-thrombocyte interaction mediated by fibrinogen. Implications for myocardial reperfusion injury. <a href="#">Arterioscler Thromb Vasc Biol. 20 (10): 2226-32.</a></li> <li>2. Dalli, J. <i>et al.</i> (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. <a href="#">Blood. 112 (6): 2512-9.</a></li> <li>3. Barratt-Due, A. <i>et al.</i> (2011) Ornithodoros moubata Complement Inhibitor Is an Equally Effective C5 Inhibitor in Pigs and Humans. <a href="#">J Immunol. 187: 4913-9.</a></li> <li>4. Kapetanovic, R. <i>et al.</i> (2012) Pig bone marrow-derived macrophages resemble human macrophages in their response to bacterial lipopolysaccharide. <a href="#">J Immunol. 188: 3382-94.</a></li> <li>5. Maiolini, A. <i>et al.</i> (2012) Toll-like receptors 4 and 9 are responsible for the maintenance of the inflammatory reaction in canine steroid-responsive meningitis-arteritis, a large animal model for neutrophilic meningitis. <a href="#">J Neuroinflammation. 9: 226.</a></li> <li>6. Maślanka, T. <i>et al.</i> (2012) The presence of CD25 on bovine WC1+ gammadelta T cells is positively correlated with their production of IL-10 and TGF-beta, but not IFN-gamma. <a href="#">Pol J Vet Sci. 15 (1): 11-20.</a></li> <li>7. Pakandl, M. <i>et al.</i> (2008) Immune response to rabbit coccidiosis: a comparison between infections with Eimeria flavescens and E. intestinalis. <a href="#">Folia Parasitol (Praha). 55:1-6.</a></li> <li>8. Jacks, S. <i>et al.</i> (2007) Experimental infection of neonatal foals with Rhodococcus equi triggers adult-like gamma interferon induction. <a href="#">Clin Vaccine Immunol. 14:669-77</a></li> <li>9. Kamble, N.M. <i>et al.</i> (2016) Interaction of a live attenuated <i>Salmonella gallinarum</i> vaccine candidate with chicken bone marrow-derived dendritic cells. <a href="#">Avian Pathol. Jan 26:1-24. [Epub ahead of print]</a></li> <li>10. Brace, P.T. <i>et al.</i> (2017) <i>Mycobacterium tuberculosis</i> subverts negative regulatory pathways in human macrophages to drive immunopathology. <a href="#">PLoS Pathog. 13 (6): e1006367.</a></li> <li>11. Topoluk, N. <i>et al.</i> (2017) Amniotic Mesenchymal Stromal Cells Exhibit Preferential Osteogenic and Chondrogenic Differentiation and Enhanced Matrix Production Compared With Adipose Mesenchymal Stromal Cells. <a href="#">Am J Sports Med. 363546517706138.</a></li> <li>12. Iwaszko-Simonik, A. <i>et al.</i> (2015) Expression of surface platelet receptors (CD62P and CD41/61) in horses with recurrent airway obstruction (RAO). <a href="#">Vet Immunol Immunopathol. 164 (1-2): 87-92.</a></li> <li>13. Arzi, B. <i>et al.</i> (2017) Therapeutic Efficacy of Fresh, Allogeneic Mesenchymal Stem Cells for Severe Refractory Feline Chronic Gingivostomatitis. <a href="#">Stem Cells Transl Med. 6 (8): 1710-22.</a></li> </ol>
<b>Storage</b>	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 Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA928A647>  
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**Regulatory** For research purposes only

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