

## Datasheet: MCA1143P647

<b>Description:</b>	RAT ANTI MOUSE CD40:RPE-Alexa Fluor® 647
<b>Specificity:</b>	CD40
<b>Format:</b>	RPE-ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	3/23
<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	▪			Neat - 1/5

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 titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse									
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 647 - lyophilized									
<b>Reconstitution</b>	Reconstitute with 1.0 ml distilled water									
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE-Alexa Fluor®647 488nm laser</td> <td>496</td> <td>667</td> </tr> <tr> <td>RPE-Alexa Fluor®647 561nm laser</td> <td>546</td> <td>667</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE-Alexa Fluor®647 488nm laser	496	667	RPE-Alexa Fluor®647 561nm laser	546	667
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RPE-Alexa Fluor®647 488nm laser	496	667								
RPE-Alexa Fluor®647 561nm laser	546	667								
<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									

5% Sucrose

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<b>Immunogen</b>	Extracellular Domain of Mouse CD40 and the Fc portion of Human IgG1.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P27512</a> <a href="#">Related reagents</a>
	<b>Entrez Gene:</b> <a href="#">21939</a> Cd40 <a href="#">Related reagents</a>

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<b>Synonyms</b>	Tnfrsf5
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<b>RRID</b>	AB_871976
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<b>Fusion Partners</b>	Spleen cells from immunised LOU/c rats were fused with cells of the Ag8 mouse myeloma cell line.
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<b>Specificity</b>	<p><b>Rat anti Mouse CD40 antibody, clone 3/23</b> recognizes the murine CD40 cell surface glycoprotein. It does not react with normal mouse Ig or with human IgG1 and will stain most mature mouse B cells. It does not cross react with mouse T cells. The specificity of Rat anti Mouse CD40 antibody, clone 3/23 was demonstrated by ELISA and flow cytometry using BHK cells transfected with mouse CD40.</p> <p>Rat anti Mouse CD40 antibody, clone 3/23 is a powerful activator of normal B cells especially in the presence of IL-4.</p>
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<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
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<b>References</b>	<ol style="list-style-type: none"><li>1. Parry, S.L. <i>et al.</i> (1994) Plastic-immobilized anti-mu or anti-delta antibodies induce apoptosis in mature murine B lymphocytes. <a href="#">Eur J Immunol. 24 (4): 974-9.</a></li><li>2. Hasbold, J. <i>et al.</i> (1994) Properties of mouse CD40: cellular distribution of CD40 and B cell activation by monoclonal anti-mouse CD40 antibodies. <a href="#">Eur J Immunol. 24 (8): 1835-42.</a></li><li>3. Hasbold, J. &amp; Klaus, G.G. (1994) B cells from CBA/N mice do not proliferate following ligation of CD40. <a href="#">Eur J Immunol. 24 (1): 152-7.</a></li><li>4. Bedoret, D. <i>et al.</i> (2009) Lung interstitial macrophages alter dendritic cell functions to prevent airway allergy in mice. <a href="#">J Clin Invest. 119 (12): 3723-38.</a></li><li>5. Mohan, J. <i>et al.</i> (2005) Skin-derived dendritic cells acquire and degrade the scrapie agent following in vitro exposure. <a href="#">Immunology. 116: 122-33.</a></li><li>6. Mukhopadhyay, S. <i>et al.</i> (2004) Activation of murine macrophages by Neisseria meningitidis and IFN-gamma in vitro: distinct roles of class A scavenger and Toll-like pattern recognition receptors in selective modulation of surface phenotype. <a href="#">J Leukoc Biol. 76: 577-84.</a></li><li>7. Russo, S. <i>et al.</i> (2003) Platelet-activating factor mediates CD40-dependent</li></ol>
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**Storage** Store at +4°C.  
DO NOT FREEZE.

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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #20487 available at: 20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Useful Reagents

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[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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