

Datasheet: MCA2200A647

**BATCH NUMBER 154995**

<b>Description:</b>	MOUSE ANTI C-MYC:Alexa Fluor® 647
<b>Specificity:</b>	C-MYC
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9E10
<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 (1)	▪			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own systems using appropriate negative/positive controls.

**(1)Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

<b>Target Species</b>	Human
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<b>Species Cross Reactivity</b>	<p>Reacts with: Epitope tag</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
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<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid
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Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
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<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 0.05 mg/ml
<b>Immunogen</b>	Synthetic peptide sequence corresponding to the C-terminal region (residues 408-439) of human c-myc conjugated to keyhole limpet hemocyanin.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P01106</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">4609</a> MYC <a href="#">Related reagents</a>
<b>Synonyms</b>	BHLHE39
<b>RRID</b>	AB_566936
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti c-myc antibody, clone 9E10</b> detects the p62<sup>c-myc</sup> proto-oncogene protein, which is involved in the regulation of the cell cycle and cell growth. C-myc is primarily located to the cell nucleus, but has also been shown to localized to the cytoplasm in several cell lines (<a href="#">Craig et al. 1993</a>). Overexpression of c-myc has been reported in a wide variety of human cancers (<a href="#">Nesbit et al. 1999</a>).</p> <p>Mouse anti c-myc antibody, clone 9E10 recognizes the sequence EQKLISEEDL and may be used to detect proteins and peptides labelled with molecular tags containing this sequence (<a href="#">Hilpert et al. 2001</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Evan, G.I. <i>et al.</i> (1985) Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. <a href="#">Mol Cell Biol. 5 (12): 3610-6.</a></li> <li>2. Spandidos, D.A. <i>et al.</i> (1987) Elevated expression of the myc gene in human benign and malignant breast lesions compared to normal tissue. <a href="#">Anticancer Res. 7 (6): 1299-304.</a></li> <li>3. Borodina, I. <i>et al.</i> (2010) Display of wasp venom allergens on the cell surface of <i>Saccharomyces cerevisiae</i>. <a href="#">Microb Cell Fact. 9: 74.</a></li> <li>4. Groeger, G. <i>et al.</i> (2007) Co-operative Cdc42 and Rho signalling mediates ephrinB-triggered endothelial cell retraction. <a href="#">Biochem J. 404: 23-9.</a></li> <li>5. Head, B. <i>et al.</i> (2009) Inducible proteolytic inactivation of OPA1 mediated by the OMA1 protease in mammalian cells. <a href="#">J Cell Biol. 187: 959-66.</a></li> <li>6. Hilpert, K. <i>et al.</i> (2001) Anti-c-myc antibody 9E10: epitope key positions and variability</li> </ol>

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**Further Reading**

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2. Krauß, N. *et al.* (2008) The structure of the anti-c-myc antibody 9E10 Fab fragment/epitope peptide complex reveals a novel binding mode dominated by the heavy chain hypervariable loops. [Proteins. 73: 552-65.](#)

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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 Information** Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2200A647>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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