

## Datasheet: MCA2200A700

<b>Description:</b>	MOUSE ANTI C-MYC:Alexa Fluor® 700
<b>Specificity:</b>	C-MYC
<b>Format:</b>	ALEXA FLUOR® 700
<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 product 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 product for use in their own system using appropriate negative/positive controls.

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

<b>Target Species</b>	Human		
<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 (NaN <sub>3</sub> )		
<b>Stabilisers</b>	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>		

**Entrez Gene:**

[4609](#) MYC [Related reagents](#)

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<b>Synonyms</b>	BHLHE39
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<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.
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<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 localised 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>
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul
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<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 characterized using peptide spot synthesis on cellulose. <a href="#">Protein Eng. 14: 803-6.</a></li><li>7. Krauss, N. <i>et al.</i> (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. <a href="#">Proteins. 73: 552-65.</a></li><li>8. Gray, P. <i>et al.</i> (2010) Identification of a novel human MD-2 splice variant that negatively regulates Lipopolysaccharide-induced TLR4 signaling. <a href="#">J Immunol. 184: 6359-66.</a></li><li>9. Duriseti, S. <i>et al.</i> (2010) Antagonistic anti-urokinase plasminogen activator receptor (uPAR) antibodies significantly inhibit uPAR-mediated cellular signaling and migration. <a href="#">J Biol Chem. 285: 26878-88.</a></li><li>10. Tan, P.H. <i>et al.</i> (2005) Creation of tolerogenic human dendritic cells via intracellular CTLA4: a novel strategy with potential in clinical immunosuppression. <a href="#">Blood. 106: 2936-43.</a></li><li>11. Wallace, S.W. <i>et al.</i> (2010) Cdc42 regulates apical junction formation in human bronchial epithelial cells through PAK4 and Par6B. <a href="#">Mol Biol Cell. 21: 2996-3006.</a></li><li>12. Rowshanravan, B. <i>et al.</i> (2014) RasGAP mediates neuronal survival in <i>Drosophila</i> through direct regulation of Rab5-dependent endocytosis. <a href="#">J Cell Sci. 127: 2849-61.</a></li><li>13. Taylor K <i>et al.</i> (2015) Nanocell targeting using engineered bispecific antibodies. <a href="#">MAbs. 7 (1): 53-65.</a></li><li>14. Elders, R.C. <i>et al.</i> (2014) Recombinant canine IgE Fc and an IgE Fc-TRAIL fusion protein bind to neoplastic canine mast cells. <a href="#">Vet Immunol Immunopathol. 159 (1-2): 29-40.</a></li><li>15. Sharkey, A.M. <i>et al.</i> (2015) Tissue-Specific Education of Decidual NK Cells. <a href="#">J Immunol. 195 (7):</a></li></ol>
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[3026-32.](#)

16. McGough, I.J. *et al.* (2014) Identification of molecular heterogeneity in SNX27-retromer-mediated endosome-to-plasma-membrane recycling. [J Cell Sci. 127 \(Pt 22\): 4940-53.](#)

17. Gohlke, S. *et al.* (2017) *In Vitro* and *In Vivo* Studies on the Structural Organization of Chs3 from *Saccharomyces cerevisiae*. [Int J Mol Sci. 18 \(4\): pii: E702.](#)

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**Further Reading** 1. Nesbit, C. *et al.* (1999) MYC oncogenes and human neoplastic disease. [Oncogene. 18: 3004-16.](#)

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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: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 700 \(MCA928A700\)](#)

### Recommended Useful Reagents

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

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

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'M344351:190111'

Printed on 20 May 2019

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