

## Datasheet: MCA2200B

<b>Description:</b>	MOUSE ANTI C-MYC:Biotin
<b>Specificity:</b>	C-MYC
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	9E10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA	▪			1/20 - 1/50
Immunoprecipitation			▪	
Western Blotting (1)	▪			

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) **9E10 recognizes c-myc under non-reducing conditions**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Epitope tag

**N.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.

### Product Form

Purified IgG conjugated to biotin - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> ) 1% bovine serum albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 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_323950
<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 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl
<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. 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>6. Gohlke, S. <i>et al.</i> (2017) <i>In Vitro</i> and <i>In Vivo</i> Studies on the Structural Organization of Chs3 from <i>Saccharomyces cerevisiae</i>. <a href="#">Int J Mol Sci. 18 (4): pii: E702.</a></li> </ol>

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#### Further Reading

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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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/MCA2200B>  
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**Regulatory**

For research purposes only

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