

Datasheet: MCA2200B

<b>Description:</b> MOUSE ANTI C-MYC:Bi	
Specificity:	C-MYC
Format:	Biotin
<b>Product Type:</b>	Monoclonal Antibody
Clone:	9E10
Isotype:	lgG1
Quantity:	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.

	Yes	No	Not Determined	<b>Suggested Dilution</b>
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 <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.			
Product Form	Purified IgG conjugated to biotin - liquid			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant			

Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% sodium azide (NaN <sub>3</sub> ) 1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Synthetic peptide sequence corresponding to the C-terminal region (residues 408-439) of human c-myc conjugated to keyhole limpet hemocyanin.		
External Database Links	UniProt: P01106 Related reagents  Entrez Gene: 4609 MYC Related reagents		
Synonyms	BHLHE39		
RRID	AB_323950		
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.		
Specificity	<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 ( <u>Craig et al. 1993</u> ). Overexpression of c-myc has been reported in a wide variety of human cancers (Nesbit et al. 1999).		
	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 (Hilpert <i>et al.</i> 2001).		
Flow Cytometry	Use 10μl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100μl		
References	<ol> <li>Evan, G.I. et al. (1985) Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. Mol Cell Biol. 5 (12): 3610-6.</li> <li>Spandidos, D.A. et al. (1987) Elevated expression of the myc gene in human benign and malignant breast lesions compared to normal tissue. Anticancer Res. 7 (6): 1299-304.</li> <li>Borodina, I. et al. (2010) Display of wasp venom allergens on the cell surface of Saccharomyces cerevisiae. Microb Cell Fact. 9: 74.</li> <li>Groeger, G. et al. (2007) Co-operative Cdc42 and Rho signalling mediates ephrinB-triggered endothelial cell retraction. Biochem J. 404: 23-9.</li> <li>Hilpert, K. et al. (2001) Anti-c-myc antibody 9E10: epitope key positions and variability characterized using peptide spot synthesis on cellulose. Protein Eng. 14: 803-6.</li> <li>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.</li> </ol>		

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Further Reading	<ol> <li>Nesbit, C. <i>et al.</i> (1999) MYC oncogenes and human neoplastic disease. Oncogene. 18: 3004-16.</li> <li>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. Proteins. 73: 552-65.</li> </ol>
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2200B">https://www.bio-rad-antibodies.com/SDS/MCA2200B</a> 10041
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M413253:221121'

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