

Datasheet: MCA2200B

BATCH NUMBER 152872

Description:	MOUSE ANTI C-MYC:Biotin
Specificity:	C-MYC
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	9E10
Isotype:	IgG1
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	Suggested Dilution
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA	▪			1/20 - 1/50
Immunoprecipitation			▪	
Western Blotting (1)	▪			

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

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Epitope tag</p> <p>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.</p>
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 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	<p>Mouse anti c-myc antibody, clone 9E10 detects the p62^{c-myc} 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 (Craig et al. 1993). Overexpression of c-myc has been reported in a wide variety of human cancers (Nesbit et al. 1999).</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 (Hilpert et al. 2001).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Immunohistology	This product does not require protein digestion pre-treatment of paraffin sections prior to staining This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections.
References	<ol style="list-style-type: none"> 1. Evan, G.I. <i>et al.</i> (1985) Isolation of monoclonal antibodies specific for human c-myc proto-oncogene product. Mol Cell Biol. 5 (12): 3610-6. 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. Anticancer Res. 7 (6): 1299-304. 3. Borodina, I. <i>et al.</i> (2010) Display of wasp venom allergens on the cell surface of <i>Saccharomyces cerevisiae</i>. Microb Cell Fact. 9: 74. 4. Groeger, G. <i>et al.</i> (2007) Co-operative Cdc42 and Rho signalling mediates ephrinB-

- triggered endothelial cell retraction. [Biochem J. 404: 23-9.](#)
5. Head, B. *et al.* (2009) Inducible proteolytic inactivation of OPA1 mediated by the OMA1 protease in mammalian cells. [J Cell Biol. 187: 959-66.](#)
 6. 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.](#)
 7. 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.](#)
 8. Gray, P. *et al.* (2010) Identification of a novel human MD-2 splice variant that negatively regulates Lipopolysaccharide-induced TLR4 signaling. [J Immunol. 184: 6359-66.](#)
 9. Duriseti, S. *et al.* (2010) Antagonistic anti-urokinase plasminogen activator receptor (uPAR) antibodies significantly inhibit uPAR-mediated cellular signaling and migration. [J Biol Chem. 285: 26878-88.](#)
 10. Tan, P.H. *et al.* (2005) Creation of tolerogenic human dendritic cells via intracellular CTLA4: a novel strategy with potential in clinical immunosuppression. [Blood. 106: 2936-43.](#)
 11. Wallace, S.W. *et al.* (2010) Cdc42 regulates apical junction formation in human bronchial epithelial cells through PAK4 and Par6B. [Mol Biol Cell. 21: 2996-3006.](#)
 12. Rowshanravan, B. *et al.* (2014) RasGAP mediates neuronal survival in *Drosophila* through direct regulation of Rab5-dependent endocytosis. [J Cell Sci. 127: 2849-61.](#)
 13. Taylor K *et al.* (2015) Nanocell targeting using engineered bispecific antibodies. [MAbs. 7 \(1\): 53-65.](#)
 14. Elders, R.C. *et al.* (2014) Recombinant canine IgE Fc and an IgE Fc-TRAIL fusion protein bind to neoplastic canine mast cells. [Vet Immunol Immunopathol. 159 \(1-2\): 29-40.](#)
 15. Sharkey, A.M. *et al.* (2015) Tissue-Specific Education of Decidual NK Cells. [J Immunol. 195 \(7\): 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. Frohnert, C. *et al.* (2014) Importin 7 and Nup358 promote nuclear import of the protein component of human telomerase. [PLoS One. 9 \(2\): e88887.](#)
 18. Hage, N. *et al.* (2015) Improved expression and purification of the *Helicobacter pylori* adhesin BabA through the incorporation of a hexa-lysine tag. [Protein Expr Purif. 106: 25-30.](#)
 19. Mann, J.K. & Park, S. (2015) Epitope-Specific Binder Design by Yeast Surface Display. [Methods Mol Biol. 1319: 143-54.](#)
 20. Paraskevopoulou, V. *et al.* (2019) Introduction of a C-terminal hexa-lysine tag increases thermal stability of the LacDiNac binding adhesin (LabA) exodomain from *Helicobacter pylori*. [Protein Expr Purif. 163: 105446.](#)
 21. Lim, H.K. *et al.* (2010) Flow cytometric analysis of genetic FRET detectors containing variable substrate sequences. [Biotechnol Prog. 26 \(6\): 1765-71.](#)
 22. Walker, L.M. *et al.* (2009) Efficient recovery of high-affinity antibodies from a single-chain Fab yeast display library. [J Mol Biol. 389 \(2\): 365-75.](#)
 23. Matos, J. *et al.* (2013) Cell-cycle kinases coordinate the resolution of recombination intermediates with chromosome segregation. [Cell Rep. 4 \(1\): 76-86.](#)
 24. Paraskevopoulou, V. *et al.* (2020) Structural and binding characterization of the LacdiNac-specific adhesin (LabA; HopD) exodomain from *Helicobacter pylori*. [Curr Res Struct Biol. 15 Dec \[Epub ahead of print\].](#)

25. Kalusche, S. *et al.* (2020) Lactobacilli Expressing Broadly Neutralizing Nanobodies against HIV-1 as Potential Vectors for HIV-1 Prophylaxis? [Vaccines \(Basel\). 8 \(4\) Dec 13 \[Epub ahead of print\].](#)
26. Hollandsworth, H.M. *et al.* (2020) Fluorophore-conjugated *Helicobacter pylori* recombinant membrane protein (HopQ) labels primary colon cancer and metastases in orthotopic mouse models by binding CEA-related cell adhesion molecules. [Transl Oncol. 13 \(12\): 100857.](#)

Further Reading

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

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.](#)

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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2200B>
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