

Datasheet: MCA2200

Description:	MOUSE ANTI C-MYC
Specificity:	C-MYC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9E10
Isotype:	IgG1
Quantity:	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
Flow Cytometry (1)	▪			Neat - 1/10
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA	▪			1/100 - 1/500
Immunoprecipitation			▪	
Western Blotting (2)	▪			1/100 - 1/500

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.

(2)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 - liquid

Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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	<p>UniProt: P01106 Related reagents</p> <p>Entrez Gene: 4609 MYC Related reagents</p>
Synonyms	BHLHE39
RRID	AB_324359
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. *et al.* (2010) Display of wasp venom allergens on the cell surface of *Saccharomyces cerevisiae*. [Microb Cell Fact. 9: 74.](#)
4. Groeger, G. *et al.* (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 LactiNac-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](#).
27. Paraskevopoulou, V. *et al.* (2021) Structural and binding characterization of the LactiNac-specific adhesin (LabA; HopD) exodomain from *Helicobacter pylori*. [Curr Res Struct Biol. 3: 19-29](#).

Further Reading	<p>1. Nesbit, C. <i>et al.</i> (1999) MYC oncogenes and human neoplastic disease. Oncogene. 18: 3004-16.</p> <p>2. 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.</p>
------------------------	---

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 #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M395744:220519'

Printed on 19 May 2022

© 2022 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)