

Datasheet: MCA2200P

BATCH NUMBER 168022

Description:	MOUSE ANTI C-MYC:HRP
Specificity:	C-MYC
Format:	HRP
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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA	▪			1/100 - 1/500
Immunoprecipitation			▪	
Western Blotting (1)	▪			1/100 - 1/500

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	<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 Horseradish Peroxidase (HRP) - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.01% Thiomersal

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

UniProt:

[P01106](#) [Related reagents](#)

Entrez Gene:

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

Synonyms BHLHE39

RRID AB_324087

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 myeloma cell line.

Specificity **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).

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).

References

1. 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.](#)
2. 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.](#)
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. 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.](#)
6. 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.](#)

7. 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.](#)
8. 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.](#)
9. 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.](#)
10. 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.](#)
11. Rowshanravan, B. *et al.* (2014) RasGAP mediates neuronal survival in *Drosophila* through direct regulation of Rab5-dependent endocytosis. [J Cell Sci. 127: 2849-61.](#)
12. Taylor K *et al.* (2015) Nanocell targeting using engineered bispecific antibodies. [MAbs. 7 \(1\): 53-65.](#)
13. Sharkey, A.M. *et al.* (2015) Tissue-Specific Education of Decidual NK Cells. [J Immunol. 195 \(7\): 3026-32.](#)
14. Frohnert, C. *et al.* (2014) Importin 7 and Nup358 promote nuclear import of the protein component of human telomerase. [PLoS One. 9 \(2\): e88887.](#)
15. 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.](#)
16. Mann, J.K. & Park, S. (2015) Epitope-Specific Binder Design by Yeast Surface Display. [Methods Mol Biol. 1319: 143-54.](#)
17. 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.](#)
18. Lim, H.K. *et al.* (2010) Flow cytometric analysis of genetic FRET detectors containing variable substrate sequences. [Biotechnol Prog. 26 \(6\): 1765-71.](#)
19. 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.](#)
20. Matos, J. *et al.* (2013) Cell-cycle kinases coordinate the resolution of recombination intermediates with chromosome segregation. [Cell Rep. 4 \(1\): 76-86.](#)
21. 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 \[Epub ahead of print\].](#)
22. 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 \[Epub ahead of print\].](#)
23. 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.](#)
24. Paraskevopoulou, V. *et al.* (2021) Structural and binding characterization of the LacdiNac-specific adhesin (LabA; HopD) exodomain from *Helicobacter pylori*. [Curr Res Struct Biol. 3: 19-29.](#)
25. Low, S. *et al.* (2020) VHH antibody targeting the chemokine receptor CX3CR1 inhibits progression of atherosclerosis. [MAbs. 12 \(1\): 1709322.](#)

- 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 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 #10094 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2200P>
10094

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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