

Datasheet: MCA2200T

Description:	MOUSE ANTI C-MYC
Specificity:	C-MYC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9E10
Isotype:	IgG1
Quantity:	20 µg

Product Details

RRID AB_566937

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	▪			
Western Blotting (2)	▪			

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
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
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 localised 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. <i>et al.</i> (2009) Inducible proteolytic inactivation of OPA1 mediated by the OMA1 protease in mammalian cells. J Cell Biol. 187: 959-66. 6. Hilpert, K. <i>et al.</i> (2001) Anti-c-myc antibody 9E10: epitope key positions and variability characterized using peptide spot synthesis on cellulose. Protein Eng. 14: 803-6. 7. 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. 8. Gray, P. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (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.](#)
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Further Reading 1. Nesbit, C. *et al.* (1999) MYC oncogenes and human neoplastic disease. [Oncogene. 18: 3004-16.](#)

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 18 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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®680](#), [DyLight®800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

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

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