Datasheet: MCA2200A

Description:	MOUSE ANTI C-MYC:ALK.PHOS.
Specificity:	C-MYC
Format:	Alk. Phos.
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	▪			1/500 - 1/5000
Immunoprecipitation			▪	
Western Blotting (1)	▪			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)**9E10 recognizes c-myc under non-reducing conditions**

Target Species	Human
Product Form	Purified IgG conjugated to Alkaline Phosphatase - 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_3)
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	**UniProt:**

Links	P01106 Related reagents **Entrez Gene:** 4609 MYC Related reagents
Synonyms	BHLHE39
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 $p62^{c\text{-}myc}$ 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). 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).
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	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. 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. 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. 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. 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.

Further Reading	1. Nesbit, C. *et al*. (1999) MYC oncogenes and human neoplastic disease. Oncogene. 18: 3004-16.
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	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

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