

Datasheet: MCA2200G

Description:	MOUSE ANTI C-MYC
Specificity:	C-MYC
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	9E10
Isotype:	IgG1
Quantity:	2 mg

Product Details

RRID AB_1102510

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)	▪			1/10 - 1/50
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
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
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

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

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 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](#)).

Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ 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

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.](#)
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4. Groeger, G. *et al.* (2007) Co-operative Cdc42 and Rho signalling mediates ephrinB-triggered endothelial cell retraction. [Biochem J. 404: 23-9.](#)
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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.](#)
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- novel strategy with potential in clinical immunosuppression. [Blood. 106: 2936-43.](#)
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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. <i>et al.</i> (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 \(MCA928\)](#)

North & South America Tel: +1 800 265 7376
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
'M336630:181214'

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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