

Datasheet: MCA2200T

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

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 | ▪ | | | |
| 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

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| 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 - liquid |
| Preparation | Purified IgG prepared by affinity chromatography on Protein G |

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| 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_566937 |
| 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 <i>et al.</i> 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 <i>et al.</i> 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. |

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| Further Reading | 1. Nesbit, C. <i>et al.</i> (1999) MYC oncogenes and human neoplastic disease. Oncogene. 18: 3004-16. 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. |
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| 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. |
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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| Guarantee | 12 months from date of despatch |
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| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
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| Regulatory | For research purposes only |
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Related Products

Recommended Secondary Antibodies

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| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight@800 |
| 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

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