

# Anti-c-Myc Antibody

Catalog # AP95418

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC, FC, IF/IC     |
| Primary Accession | <a href="#">P01106</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 50565                  |

## Additional Information

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|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 4609                                                                                                                                    |
| Other Names        | BHLHE39; Myc proto-oncogene protein; Class E basic helix-loop-helix protein 39; bHLHe39; Proto-oncogene c-Myc; Transcription factor p64 |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human c-Myc. The exact sequence is proprietary.    |
| Dilution           | WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A                                                                           |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                               |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                               |

## Protein Information

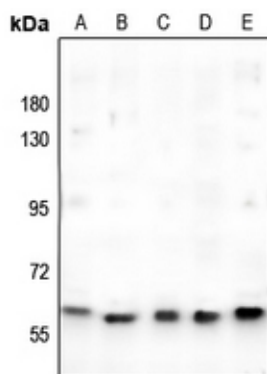
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| Name     | MYC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Synonyms | BHLHE39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Function | Transcription factor that binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3' (PubMed: <a href="#">24940000</a> , PubMed: <a href="#">25956029</a> ). Activates the transcription of growth-related genes (PubMed: <a href="#">24940000</a> , PubMed: <a href="#">25956029</a> ). Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (PubMed: <a href="#">24940000</a> , PubMed: <a href="#">25956029</a> ). Regulator of somatic reprogramming, controls self-renewal of embryonic stem cells (By similarity). Functions with TAF6L to activate target gene expression through RNA polymerase II pause release (By similarity). Positively regulates transcription of HNRNPA1, HNRNPA2 and PTBP1 which in turn regulate splicing of pyruvate kinase PKM by binding repressively to sequences flanking PKM exon 9, inhibiting exon 9 inclusion and resulting in exon 10 inclusion and production of the PKM M2 isoform (PubMed: <a href="#">20010808</a> ). |

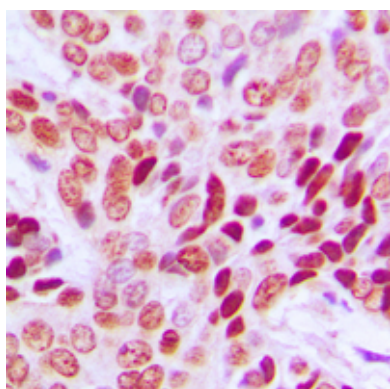
## Cellular Location

Nucleus, nucleoplasm. Nucleus, nucleolus. Nucleus. Cytoplasm Chromosome.  
Note=Association with chromatin is reduced by hyperphosphorylation  
(PubMed:30158517) Localization to the nucleolus is dependent on HEATR1  
(PubMed:38225354)

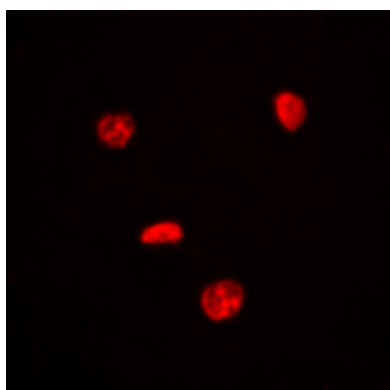
## Images



Western blot analysis of c-Myc expression in HeLa (A), BV2 (B), LO2 (C), MCF7 (D), C6 (E) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 60 kD)



Immunohistochemical analysis of c-Myc staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of c-Myc staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.