

For Research Use Only

# c-MYC Monoclonal antibody

Catalog Number: 67447-1-Ig

Featured Product

108 Publications



## Basic Information

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| <b>Catalog Number:</b><br>67447-1-Ig                           | <b>GenBank Accession Number:</b><br>BC000141                               | <b>Purification Method:</b><br>Protein A purification                  |
| <b>Size:</b><br>150ul , Concentration: 1500 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>4609  | <b>CloneNo.:</b><br>3D9C12   |
| <b>Source:</b><br>Mouse  | <b>UNIPROT ID:</b><br>P01106   | <b>Recommended Dilutions:</b><br>WB 1:5000-1:50000<br>IHC 1:500-1:2000 |
| <b>Isotype:</b><br>IgG1  | <b>Full Name:</b><br>v-myc myelocytomatosis viral oncogene homolog (avian) |  |
| <b>Immunogen Catalog Number:</b><br>AG17519                    | <b>Calculated MW:</b><br>49 kDa  |  |
|  | <b>Observed MW:</b><br>55-60 kDa   |  |

## Applications

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| <b>Tested Applications:</b><br>WB, IHC, FC (Intra), ELISA  | <b>Positive Controls:</b>  |
| <b>Cited Applications:</b><br>WB, IHC, IF, IP, CoIP, ChIP  | <b>WB :</b> MDA-MB-231 cells, HT-29 cells, 4T1 cells, PC-3 cells, K-562 cells, HL-60 cells, Raji cells, HSC-T6 cells, RAW 264.7 cells, NIH/3T3 cells |
| <b>Species Specificity:</b><br>human, mouse, rat   | <b>IHC :</b> human colon cancer tissue, human cervical cancer tissue, mouse brain tissue, human tonsillitis tissue                                   |
| <b>Cited Species:</b><br>human, mouse, rat   |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## Background Information

MYC contains one basic helix-loop-helix (bHLH) domain. This protein is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. It seems to activate the transcription of growth-related genes. It binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3'. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma.

## Notable Publications

| Author     | Pubmed ID | Journal       | Application |
|------------|-----------|---------------|-------------|
| Jiawei Hao | 36126167  | Autophagy     | WB          |
| Lin Lv     | 33045632  | Vet Microbiol | WB, CoIP    |
| Han Li     | 36294896  | Life (Basel)  | WB          |

## Storage

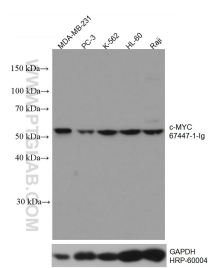
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

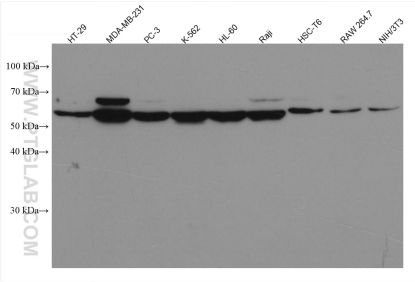
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

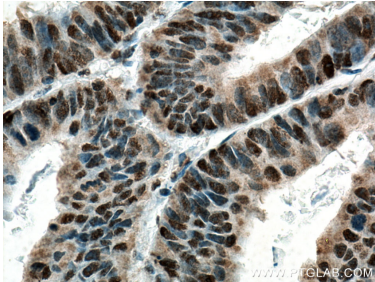
Selected Validation Data



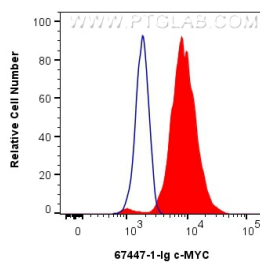
Various lysates were subjected to SDS PAGE followed by western blot with 67447-1-Ig (MYC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



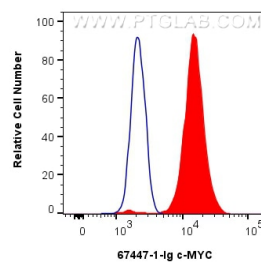
Various lysates were subjected to SDS PAGE followed by western blot with 67447-1-Ig (c-MYC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



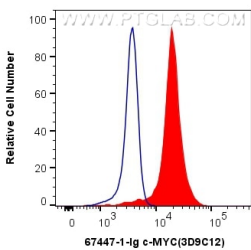
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67447-1-Ig (c-MYC antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> NCCIT cells were intracellularly stained with 0.25 ug c-MYC Monoclonal antibody (67447-1-Ig, Clone:3D9C12) and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug c-MYC Monoclonal antibody (67447-1-Ig, Clone:3D9C12) and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.25 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



1x10<sup>6</sup> K-562 cells were intracellularly stained with 0.4 ug Anti-Human c-MYC (67447-1-Ig, Clone:3D9C12) and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).