

For Research Use Only

# c-MYC Monoclonal antibody

Catalog Number: 67447-1-Ig **10 Publications**



## Basic Information

<b>Catalog Number:</b> 67447-1-Ig	<b>GenBank Accession Number:</b> BC000141	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4609	<b>CloneNo.:</b> 3D9C12
<b>Source:</b> Mouse	<b>Full Name:</b> v-myc myelocytomatosis viral oncogene homolog (avian)	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 49 kDa	
<b>Immunogen Catalog Number:</b> AG17519	<b>Observed MW:</b> 55-60 kDa	

## Applications

<b>Tested Applications:</b> FC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : MDA-MB-231 cells, HT-29 cells IHC : human colon cancer tissue, human tonsillitis tissue, mouse brain tissue
<b>Cited Applications:</b> CoIP, IHC, IP, WB	
<b>Species Specificity:</b> Human, mouse, rat	
<b>Cited Species:</b> human, mouse	
<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
Lin Lv	33045632	Vet Microbiol	WB, CoIP
Pucheng Mei	33953350	Cell Death Differ	IP
Yin-Juan Wu	33691755	Parasit Vectors	WB

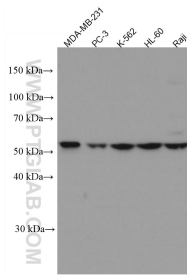
## Storage

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

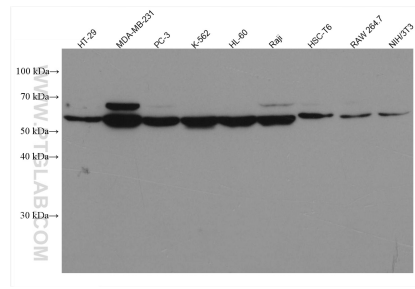
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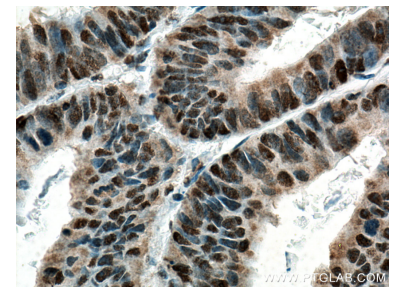
## Selected Validation Data



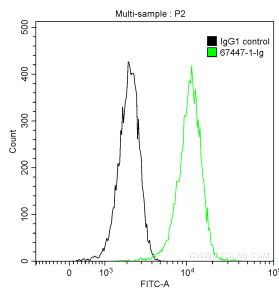
Various lysates were subjected to SDS PAGE followed by western blot with 67447-1-Ig (MYC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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> K-562 cells were intracellularly stained with 0.2 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 (green), and 0.2 ug Control Antibody. Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.