For Research Use Only

c-MYC Monoclonal antibody

Catalog Number:67447-1-Ig Featured Product 85 Publications

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Basic Information

Catalog Number:
67447-1-Ig

Size:
150ul , Concentration: 1500 µg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG17519

GenBank Accession Number:
BC000141

GeneID (NCBI):
4609

UNIPROT ID:
P01106

Full Name:
v-myc myelocytomatosis viral oncogene homolog (avian)

Calculated MW:
49 kDa

Observed MW:
55-60 kDa

Purification Method:
Protein A purification

CloneNo.:
3D9C12

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:500-1:2000

Applications

Tested Applications:
WB, IHC, FC (Intra), ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, ChIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : 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

IHC : human colon cancer tissue, human cervical cancer tissue, mouse brain tissue, human tonsillitis tissue

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

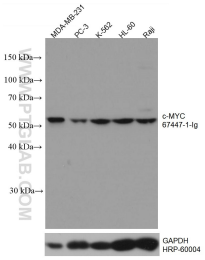
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

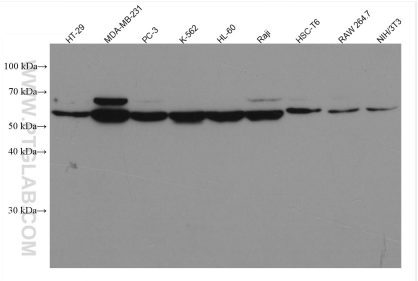
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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.



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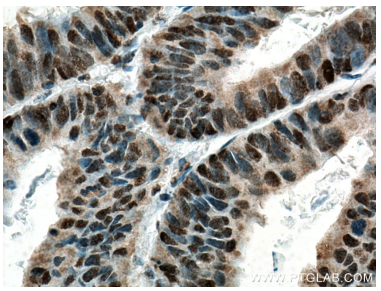
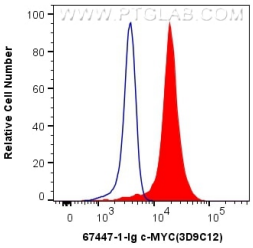


Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67447-1-Ig (c-MYC antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human c-MYC (67447-1-Ig, Clone:3D9C12) and CoraLite®488-Conjugated 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).