

For Research Use Only

# c-MYC Recombinant antibody

Catalog Number: 80845-1-RR

Featured Product



## Basic Information

### Catalog Number:

80845-1-RR

### Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1263

### 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:

50-65 kDa

### Purification Method:

Protein A purification

### CloneNo.:

2B17

### Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:200-1:800

IF/ICC: 1:50-1:500

FC (Intra): 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Species Specificity:

human, mouse

**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**: HEK-293 cells, A549 cells, HL-60 cells, HeLa cells, K-562 cells

**IHC**: human colon cancer tissue, mouse embryo tissue

**IF/ICC**: HeLa cells, HEK-293 cells, U2OS cells

**FC (Intra)**: HeLa cells,

## 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.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

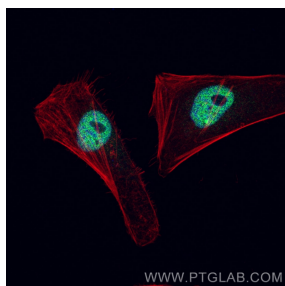
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

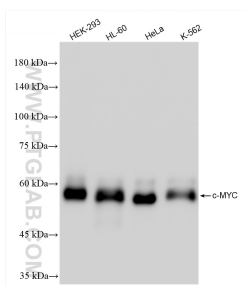
E: proteintech@ptglab.com  
W: ptglab.com

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

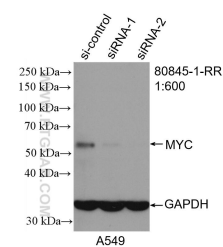
## Selected Validation Data



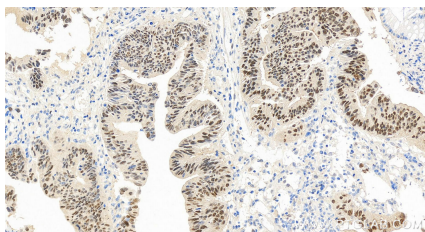
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using MYC antibody (80845-1-RR, Clone: 2B17) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



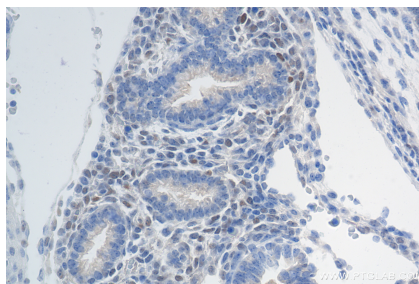
HEK-293 cells were subjected to SDS PAGE followed by western blot with 80845-1-RR (c-MYC antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



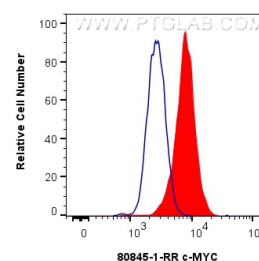
WB result of MYC antibody (80845-1-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-MYC transfected A549 cells.



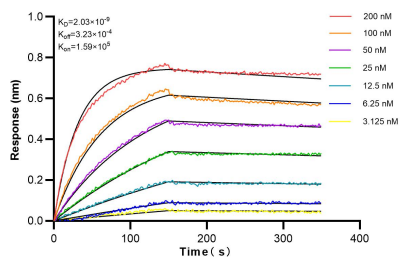
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 80845-1-RR (c-MYC antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse embryo tissue slide using 80845-1-RR (c-MYC antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.25  $\mu$ g c-MYC Recombinant antibody (80845-1-RR, Clone:2B17) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25  $\mu$ g Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 80845-1-RR against Human c-MYC were performed. The affinity constant is  $2.03 \times 10^8$ .