

**Phospho-MYC(T58) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3325a**

**Specification**

**Phospho-MYC(T58) Antibody - Product Information**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application          | WB, DB, E                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Primary Accession    | <a href="#">P01106</a>                                                                                                                                                                                                                                                                                                                                                                                                             |
| Other Accession      | <a href="#">P09416</a> , <a href="#">Q29031</a> ,<br><a href="#">P01108</a> , <a href="#">P01109</a> ,<br><a href="#">Q2HJ27</a> , <a href="#">P24793</a> ,<br><a href="#">Q63379</a> , <a href="#">P03966</a> ,<br><a href="#">P04198</a> , <a href="#">Q9PSJ0</a> ,<br><a href="#">P18444</a> , <a href="#">P15171</a> ,<br><a href="#">Q7ZVS9</a> , <a href="#">P52160</a> ,<br><a href="#">P06171</a> , <a href="#">Q28566</a> |
| Reactivity Predicted | Human<br>Xenopus,<br>Zebrafish,<br>Chicken, Mouse,<br>Rat, Bovine, Pig,<br>Sheep                                                                                                                                                                                                                                                                                                                                                   |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype              | Rabbit Ig                                                                                                                                                                                                                                                                                                                                                                                                                          |

**Phospho-MYC(T58) Antibody - Additional Information**

**Gene ID 4609**

**Other Names**

Myc proto-oncogene protein, Class E basic helix-loop-helix protein 39, bHLHe39, Proto-oncogene c-Myc, Transcription factor p64, MYC, BHLHE39

**Target/Specificity**

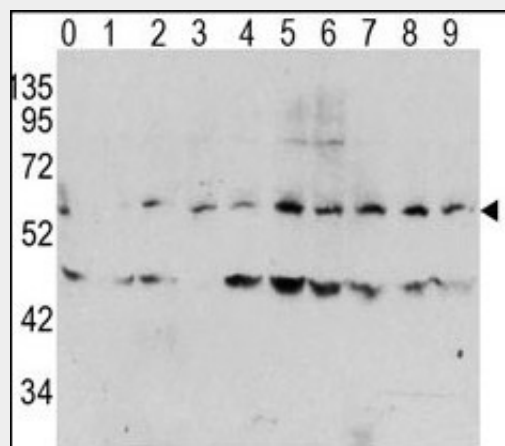
This MYC Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T58 of human MYC.

**Dilution**

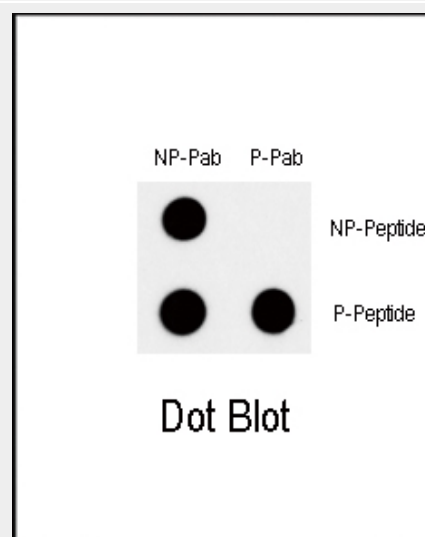
WB~~1:1000  
DB~~1:500

**Format**

Purified polyclonal antibody supplied in PBS



Western blot analysis of Phospho-MYC-T58 Antibody in human TPA activated Hela cell line lysates. Phospho-MYC (arrow) was detected using the purified PAb. (0: without TPA; 1: 60ug/ml TPA, 15min; 2: 60ug/ml TPA, 30min; 3: 60ug/ml TPA, 45min; 4: 125ug/ml TPA, 15min; 5: 125ug/ml TPA, 30min; 6: 125ug/ml TPA, 45min; 7: 250ug/ml TPA, 15min; 8: 250ug/ml TPA, 30min; 9: 250ug/ml, 45min)



Dot blot analysis of Phospho-MYC-T58 Pab (Cat.AP3325a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed.

with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Precautions

Phospho-MYC(T58) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Phospho-MYC(T58) Antibody - Protein Information

**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'. Activates the transcription of growth-related genes. Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/24940000" target="\_blank">24940000</a>). Regulator of somatic reprogramming, controls self-renewal of embryonic stem cells. Functions with TAF6L to activate target gene expression through RNA polymerase II pause release (By similarity).

### Cellular Location

Nucleus, nucleoplasm. Nucleus, nucleolus

Antibody working concentrations are 0.5ug per ml.

### Phospho-MYC(T58) Antibody - Background

MYC participates in the regulation of gene transcription. It binds DNA both in a non-specific manner and also specifically to recognizes the core sequence 5'-CAC[GA]TG-3'. This protein appears to activate the transcription of growth-related genes. Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors. A chromosomal aberration involving MYC may be a cause of a form of B-cell chronic lymphocytic leukemia.

### Phospho-MYC(T58) Antibody - References

Qi, Y., et al., Nature 431(7009):712-717 (2004).  
Wilda, M., et al., Genes Chromosomes Cancer 41(2):178-182 (2004).  
Dom, et al., Oncogene 23(44):7378-7390 (2004).  
Pap, T., et al., Arthritis Rheum. 50(9):2794-2802 (2004).  
Ozawa, N., et al., Endocrinology 145(9):4244-4250 (2004).

### Phospho-MYC(T58) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

**Phospho-MYC(T58) Antibody - Citations**

- [IÎB kinases increase Myc protein stability and enhance progression of breast cancer cells.](#)