

# c-Myc (phospho Thr58) Polyclonal Antibody

Catalog # AP67001

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, IP, E
<b>Primary Accession</b>	<a href="#">P01106</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	50565

## Additional Information

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<b>Gene ID</b>	4609
<b>Other Names</b>	MYC; BHLHE39; Myc proto-oncogene protein; Class E basic helix-loop-helix protein 39; bHLHe39; Proto-oncogene c-Myc; Transcription factor p64
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunoprecipitation: 2-5 ug/mg lysate. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A IP~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	MYC
<b>Synonyms</b>	BHLHE39
<b>Function</b>	Transcription factor that binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]TG-3' (PubMed: <a href="#">24940000</a> , PubMed: <a href="#">25956029</a> ). Activates the transcription of growth-related genes (PubMed: <a href="#">24940000</a> , PubMed: <a href="#">25956029</a> ). Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (PubMed: <a href="#">24940000</a> , PubMed: <a href="#">25956029</a> ). Regulator of somatic reprogramming, controls self-renewal of embryonic stem cells (By similarity). Functions with TAF6L to activate target gene expression through RNA polymerase II pause release (By similarity). Positively regulates transcription of HNRNPA1, HNRNPA2 and PTBP1 which in turn regulate splicing of pyruvate kinase PKM by binding repressively to sequences flanking PKM exon 9, inhibiting exon 9 inclusion and resulting in exon 10 inclusion and production of the PKM M2 isoform (PubMed: <a href="#">20010808</a> ).

## Cellular Location

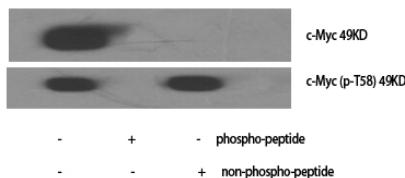
Nucleus, nucleoplasm. Nucleus, nucleolus. Nucleus. Cytoplasm Chromosome.  
Note=Association with chromatin is reduced by hyperphosphorylation  
(PubMed:30158517) Localization to the nucleolus is dependent on HEATR1  
(PubMed:38225354)

## Background

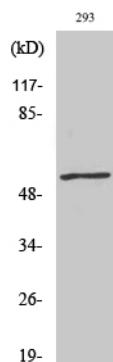
Transcription factor that binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'- CAC[GA]TG-3'. Activates the transcription of growth-related genes. Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (PubMed:[24940000](#)).

## Images

Western Blot analysis of various cells using  
Phospho-c-Myc (T58) Polyclonal Antibody diluted at  
1 : 500



Western Blot analysis of 293 cells using Phospho-c-Myc  
(T58) Polyclonal Antibody diluted at 1 : 500



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.