

# Anti-c-Myc (pT58) Antibody

Rabbit polyclonal antibody to c-Myc (pT58)

Catalog # AP59629

## Product Information

<b>Application</b>	WB, IP, IHC
<b>Primary Accession</b>	<a href="#">P01106</a>
<b>Other Accession</b>	<a href="#">P01108</a>
<b>Reactivity</b>	Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, Dog, SARS
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	50565

## Additional Information

<b>Gene ID</b>	4609
<b>Other Names</b>	BHLHE39; Myc proto-oncogene protein; Class E basic helix-loop-helix protein 39; bHLHe39; Proto-oncogene c-Myc; Transcription factor p64
<b>Target/Specificity</b>	Recognizes endogenous levels of c-Myc (pT58) protein.
<b>Dilution</b>	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100) IP~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IP (1/10 - 1/100)
<b>Format</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

<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:[20010808](#)).

## 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)

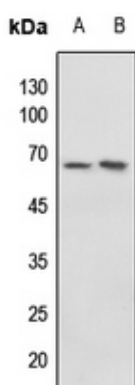
## Background

---

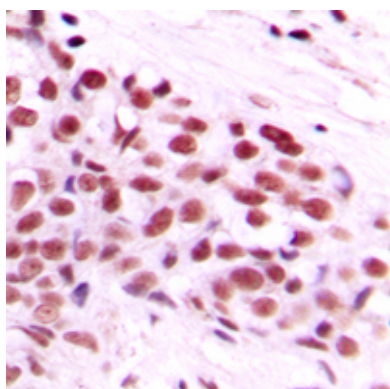
KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human c-Myc. The exact sequence is proprietary.

## Images

---



Western blot analysis of c-Myc (pT58) expression in mouse brain (A), mouse lung (B) whole cell lysates.



Immunohistochemical analysis of c-Myc (pT58) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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