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Anti-c-Myc (pT58) Antibody

Rabbit polyclonal antibody to c-Myc (pT58)
Catalog # AP59629

Specification

Anti-c-Myc (pT58) Antibody - Product Information

Application	**WB**
Primary Accession	P01106
Other Accession	P01108
Reactivity	**Human, Mouse, Rat, Zebrafish, Pig, Chicken, Bovine, SARS, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50565**

Anti-c-Myc (pT58) Antibody - Additional Information

Gene ID 4609

Other Names
BHLHE39; Myc proto-oncogene protein; Class E basic helix-loop-helix protein 39; bHLHe39; Proto-oncogene c-Myc; Transcription factor p64

Target/Specificity
Recognizes endogenous levels of c-Myc (pT58) protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IP (1/10 - 1/100)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-c-Myc (pT58) 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' (PubMed:24940000, PubMed:25956029). Activates the transcription of growth-related genes (PubMed:24940000, PubMed:<a

href="http://www.uniprot.org/citations/25956029" target="_blank">25956029). Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (PubMed:24940000, PubMed:25956029). 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).

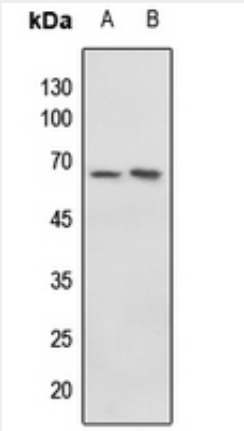
Cellular Location
Nucleus, nucleoplasm. Nucleus, nucleolus. Nucleus. Cytoplasm Note=Localization to the nucleolus is dependent on HEATR1

Anti-c-Myc (pT58) 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 Cytomety
- Cell Culture

Anti-c-Myc (pT58) Antibody - Images



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

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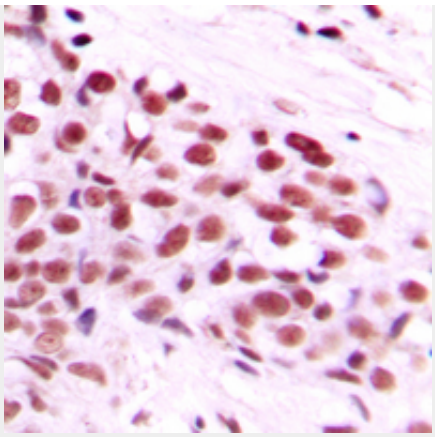

Immunohistochemical analysis of c-Myc (pT58) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and 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.

Anti-c-Myc (pT58) Antibody - Background

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