

MYC Antibody (T58)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1985D

Specification

MYC Antibody (T58) - Product Information

| | |
|-------------------------|--|
| Application | WB, IHC-P,E |
| Primary Accession | P01106 |
| Other Accession | P09416 , Q29031 , P01108 , P01109 , Q2HJ27 , P24793 , Q63379 , P03966 , P04198 , Q9PSJ0 , P18444 , P15171 , Q7ZVS9 , P52160 , P06171 , Q28566 |
| Reactivity Predicted | Human Xenopus, Zebrafish, Chicken, Mouse, Rat, Bovine, Pig, Sheep |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit Ig |
| Calculated MW | 48804 |
| Antigen Region | 36-65 |

MYC Antibody (T58) - 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

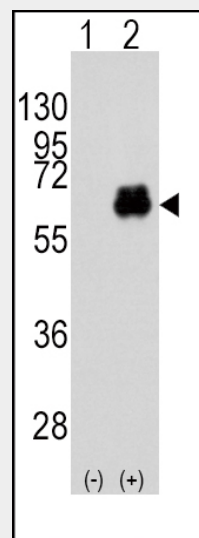
This MYC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-65 amino acids from human MYC.

Dilution

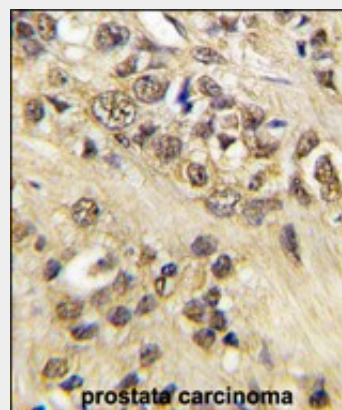
WB~~1:1000
IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This



Western blot analysis of MYC (arrow) using rabbit polyclonal MYC Antibody (T58) (Cat.#AP1985d). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MYC gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with MYC Antibody (T58) (Cat.#AP1985d), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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

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

MYC Antibody (T58) - 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:24940000). 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

MYC Antibody (T58) - Background

MYC 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. Mutations, overexpression, rearrangement and translocation of the gene encoding MYC have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene.

MYC Antibody (T58) - References

Lima,F.P., Am. J. Clin. Pathol. 129 (5), 723-726 (2008)
Ida,C., Biosci. Biotechnol. Biochem. 72 (3), 868-871 (2008)
Iijima,S., Eur. J. Biochem. 206 (2), 595-603 (1992)

MYC Antibody (T58) - 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](#)