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MYC Antibody (C-term T400) Blocking Peptide

Synthetic peptide
Catalog # BP14477b

Specification

MYC Antibody (C-term T400) Blocking Peptide - Product Information

Primary Accession P01106

MYC Antibody (C-term T400) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MYC Antibody (C-term T400) Blocking Peptide - 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: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:<a href="http://www.uniprot.org/citations/20010808"

target="_blank">20010808).

Cellular Location
Nucleus, nucleoplasm. Nucleus, nucleolus. Nucleus. Cytoplasm

MYC Antibody (C-term T400) Blocking Peptide - Protocols

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

- Blocking Peptides

MYC Antibody (C-term T400) Blocking Peptide - Images

MYC Antibody (C-term T400) Blocking Peptide - Background

The protein encoded by this gene is a multifunctional,nuclear phosphoprotein that plays a role in cell cycle progression,apoptosis and cellular transformation. It functions as atranscription factor that regulates transcription of specifictarget genes. Mutations, overexpression, rearrangement andtranslocation of this gene have been associated with a variety ofhematopoietic tumors, leukemias and lymphomas, including Burkittlymphoma. There is evidence to show that alternative translationinitiations from an upstream, in-frame non-AUG (CUG) and adownstream AUG start site result in the production of two isoformswith distinct N-termini. The synthesis of non-AUG initiated proteinis suppressed in Burkitt's lymphomas, suggesting its importance inthe normal function of this gene.

MYC Antibody (C-term T400) Blocking Peptide - References

Zhang, W., et al. Proc. Natl. Acad. Sci. U.S.A. 107(44):18956-18960(2010)Valera, A., et al. Am. J. Surg. Pathol. 34(11):1686-1694(2010)Goode, E.L., et al. Nat. Genet. 42(10):874-879(2010)Popov, N., et al. Nat. Cell Biol. 12(10):973-981(2010)Amente, S., et al. Cell Cycle 9(15):3002-3004(2010)