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Datasheet

MYC polyclonal antibody

Catalog Number: PAB18491

Regulatory Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of MYC.

Immunogen: A synthetic peptide corresponding to residues surrounding T58 of human MYC.

Host: Rabbit

Reactivity: Human,Mouse,Rat

Applications: ELISA, IHC-P, WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody is specific to MYC.

Form: Liquid

Purification: Affinity purification

Concentration: 1 mg/mL

Recommend Usage: Western Blot (1:500-1:1000)
Immunohistochemistry (1:50-1:100)
ELISA (1:20000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 4609

Gene Symbol: MYC

Gene Alias: bHLHe39, c-Myc

Gene Summary: 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 a transcription factor that regulates transcription of specific target genes. Mutations, overexpression, rearrangement and translocation of this gene 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. [provided by RefSeq]

References:

1. Tobacco-specific nitrosamine 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone promotes functional cooperation of Bcl2 and c-Myc through phosphorylation in regulating cell survival and proliferation. Jin Z, Gao F, Flagg T, Deng X. J Biol Chem. 2004 Sep 17;279(38):40209-19. Epub 2004 Jun 21.
2. The Fbw7 tumor suppressor regulates glycogen synthase kinase 3 phosphorylation-dependent c-Myc protein degradation. Welcker M, Orian A, Jin J, Grim JE, Harper JW, Eisenman RN, Clurman BE. Proc Natl Acad Sci U S A. 2004 Jun 15;101(24):9085-90. Epub 2004 May 18.
3. The Max network gone mad. Baudino TA, Cleveland JL. Mol Cell Biol. 2001 Feb;21(3):691-702.