Product datasheet

Anti-c-Myc antibody ab11917

Overview

Product name: Anti-c-Myc antibody
Description: Rabbit polyclonal to c-Myc
Host species: Rabbit
Specificity: This antibody recognizes the 65kDa form of c-Myc.
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Mouse, Human, Monkey
Predicted to work with: Sheep, Rabbit, Cat, Dog, Pig, Chimpanzee
Immunogen: Synthetic peptide:
NRNYLDYDSVQPY
, corresponding to amino acids 9-22 of Human c-Myc.
Positive control: Purchase matching WB positive control:
Recombinant human c-Myc protein (Active)
3T6 Swiss albino nuclear extract.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer: Preservatives: 0.01% Thimerosal (merthiolate), 0.1% Sodium azide
Constituents: PBS, 0.2% Gelatin
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab11917 in the following tested applications.
Function
Participates in the regulation of gene transcription. Binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[G/A]TG-3'. Seems to activate the transcription of growth-related genes.

Involvement in disease
Note=Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors. Note=A chromosomal aberration involving MYC may be a cause of a form of B-cell chronic lymphocytic leukemia. Translocation t(8;12)(q24;q22) with BTG1. Defects in MYC are a cause of Burkitt lymphoma (BL) [MIM:113970]. A form of undifferentiated malignant lymphoma commonly manifested as a large osteolytic lesion in the jaw or as an abdominal mass. Note=Chromosomal aberrations involving MYC are usually found in Burkitt lymphoma. Translocations t(8;14), t(8;22) or t(2;8) which juxtapose MYC to one of the heavy or light chain immunoglobulin gene loci.

Sequence similarities
Contains 1 basic helix-loop-helix (bHLH) domain.

Post-translational modifications
Phosphorylated by PRKDC. Phosphorylation at Thr-58 and Ser-62 by GSK3 is required for ubiquitination and degradation by the proteasome. Ubiquitinated by the SCF(FBXW7) complex when phosphorylated at Thr-58 and Ser-62, leading to its degradation by the proteasome. In the nucleoplasm, ubiquitination is counteracted by USP28, which interacts with isoform 1 of FBXW7 (FBW7alpha), leading to its deubiquitination and preventing degradation. In the nucleolus, however, ubiquitination is not counteracted by USP28, due to the lack of interaction between isoform 4 of FBXW7 (FBW7gamma) and USP28, explaining the selective MYC degradation in the nucleolus. Also polyubiquitinated by the DCX(TRUSS) complex.

Cellular localization
Nucleus > nucleoplasm. Nucleus > nucleolus.

Form
c-Myc is also expressed in the cytoplasm.

Images
Detection of c-Myc by Western blot analysis. A 65 kDa form of the transcription factor c-Myc is detected in nuclear extracts derived from 3T6 Swiss Albino cells using c-Myc rabbit polyclonal antibody at a 1/1000 dilution. The signal corresponding to nuclear c-Myc observed in lane 1 is eliminated when the immunizing peptide is added to the reaction mixture.

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