

Product datasheet

Anti-c-Myc antibody ab152146

3 Images

Overview

Product name	Anti-c-Myc antibody
Description	Rabbit polyclonal to c-Myc
Host species	Rabbit
Tested applications	Suitable for: WB, IP, ICC/IF
Immunogen	Myc Tag
Positive control	293T cells transfected with Myc tag recombinant protein lysate; HeLa Myc tag transfected lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab152146** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000 - 1/20000.
IP		1/10000.
ICC/IF		1/100 - 1/1000.

Target

Function Participates in the regulation of gene transcription. Binds DNA in a non-specific manner, yet also specifically recognizes the core sequence 5'-CAC[GA]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.

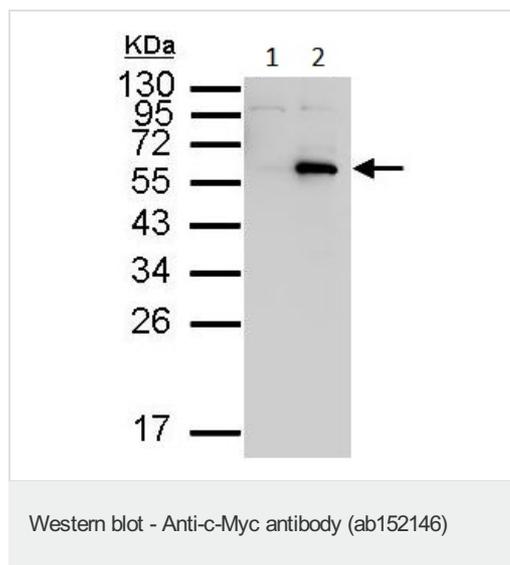
Post-translational modifications Phosphorylated by PRKDC. Phosphorylation at Thr-58 and Ser-62 by GSK3 is required for ubiquitination and degradation by the proteasome.

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

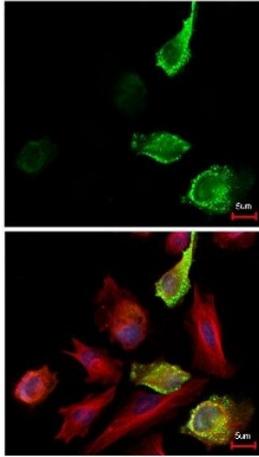


All lanes : Anti-c-Myc antibody (ab152146) at 1/5000 dilution

Lane 1 : Non-transfected 293T cell lysate

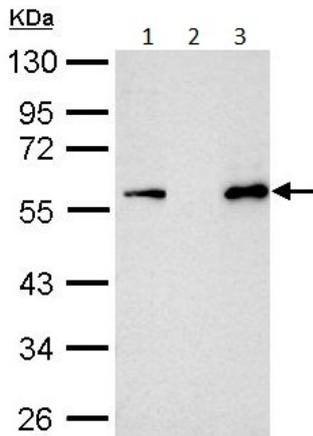
Lane 2 : Transfected 293T cell lysate

Lysates/proteins at 10 µg per lane.



Immunocytochemistry/ Immunofluorescence - Anti-c-Myc antibody (ab152146)

Immunofluorescence analysis of paraformaldehyde fixed HeLa Myc tag transfected cells, labeling Myc tag using ab152146 at 1/2500 dilution (green) and alpha tubulin filaments (red).



Immunoprecipitation - Anti-c-Myc antibody (ab152146)

Myc antibody Immunoprecipitation of Myc-tagged protein. HeLa transfected lysates were subjected to immunoprecipitation using:
 1: Input, 15µg of HeLa transfected lysates.
 2: normal rabbit IgG or
 3: 2.5 µg of ab152146.
 The precipitated protein was detected by ab152146 diluted at 1/10000.

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