

Anti-c-Myc Antibody (Monoclonal, 9E10)
Catalog # ABO10421**Specification****Anti-c-Myc Antibody (Monoclonal, 9E10) - Product Information**

Application	IHC
Primary Accession	P09416
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human
Clonality	Monoclonal
Format	Lyophilized

Description

Mouse IgG monoclonal antibody for c-Myc, v-myc myelocytomatosis viral oncogene homolog (avian) (MYC) detection. Tested with WB, IHC-P, ICC in Human. No cross reactivity with other proteins.

Reconstitution

Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Anti-c-Myc Antibody (Monoclonal, 9E10) - Additional Information

Gene ID 24577

Other Names

Myc proto-oncogene protein,
Proto-oncogene c-Myc, Transcription factor p64, Myc

Calculated MW

48898 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 8 µg/ml, Human, By Heat

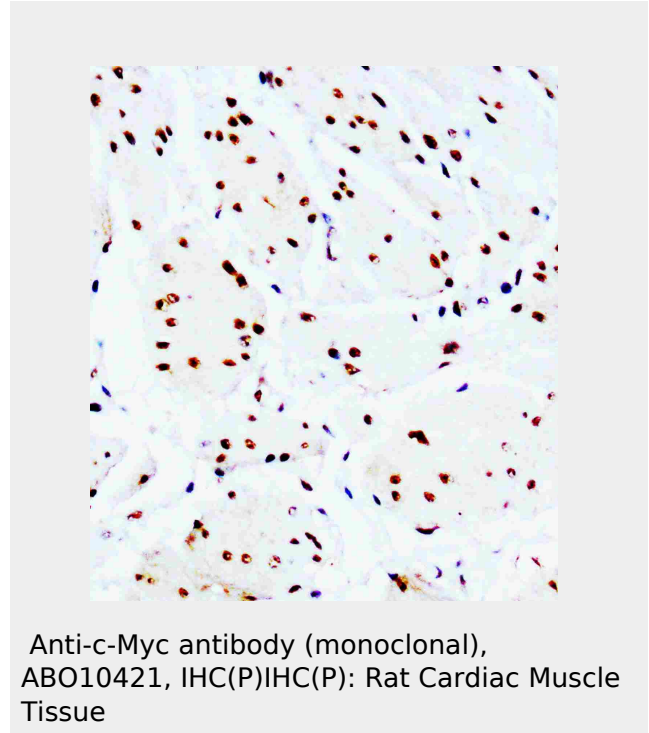
Immunocytochemistry , 1 µg/ml, Human, -
Western blot, 4 µg/ml, Human

Subcellular Localization

Nucleus, nucleoplasm . Nucleus, nucleolus .

Protein Name

Myc proto-oncogene protein

**Anti-c-Myc Antibody (Monoclonal, 9E10) - Background**

C-Myc is an oncogene that functions both in the stimulation of cell proliferation and in apoptosis. c-Myc elicits its oncogenic activity by causing immortalization, and to a lesser extent the transformation of cells, in addition to several other mechanisms. The c-MYC proto-oncogene encodes a transcription factor that is critical for cell growth and proliferation. It is one of the genes frequently altered in cancer cells in which it exhibits constitutive activity. Downregulation of c-Myc is critical for 2-Methoxyestradiol(2ME2)-induced oxidative stress and apoptosis in AML cells. And its up-regulation is important for promoting lymphocyte cell division, and demonstrating that GFP-c-Myc expression is a marker of proliferating lymphocytes in vivo.

Contents

Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN₃ as preservative.

Immunogen

Synthetic peptide corresponding to residues 408-439 of the human p62c-Myc protein.

Purification

Ascites

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r^o Constitution, at 4°C for one month. It^o Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

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

Anti-c-Myc Antibody (Monoclonal, 9E10) - Protein Information**Name Myc****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 (PubMed:17304222). Binds to the VEGFA promoter, promoting VEGFA production and subsequent sprouting angiogenesis (By similarity). 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
{ECO:0000250|UniProtKB:P01106}.
Nucleus, nucleolus

{ECO:0000250|UniProtKB:P01106}

Anti-c-Myc Antibody (Monoclonal, 9E10) - 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](#)