Mouse anti c-Myc Monoclonal Antibody

Alternative Name(s): c-Myc

Order Information

- **Description:** c-Myc
- **Catalogue:** 603-080
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 9B7
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A Synthetic peptide sequence corresponding to the C-terminal region (residues 408-439) of human c-myc.

BACKGROUND

The MYC family of proto-oncogenes consists of three members: c-myc (MYC), l-myc (MYCL), and n-myc (MYCN). C-Myc 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. Myc genes are essential for normal development as well as for homeostasis of individual tissues, including intestine, skin and the hematopoietic compartment. Expression of MYC proteins is enhanced and deregulated in many human tumors. Mutations, overexpression, rearrangement and translocation of Myc gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma, in human. There are different causes for enhanced MYC expression in individual tumors, which include alterations in the MYC genes themselves, or amplifications of MYC family genes. Deregulated expression of MYC contributes to tumorigenesis and is required to maintain tumor growth.

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human c-myc protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 49.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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*Optimal dilutions should be determined by researchers for the specific applications.

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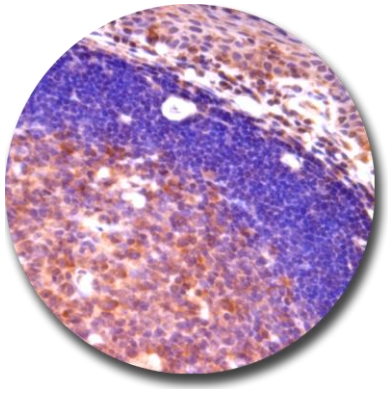
DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti-c-Myc (Cat# 603-080) at 1:100 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

Wolf E, Eilers M. Annual Review of Cancer Biology 2020 4.61-75

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