



Product Information Sheet

Monoclonal Anti-c-Myc - conjugated to Magnetic Beads

Catalogue No. MA1028-M

Lot No. 08A12

Clone: IMD-3

Ig type: mouse IgG2a

Size: 200µl

Specificity

Human.

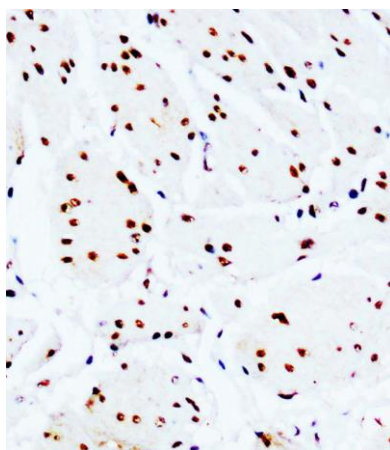
No cross reactivity with other proteins.

Recommended application

Immunoprecipitation(IP)

Storage

Store at 4°C for frequent use.



Immunogen

Synthetic peptide corresponding to residues 408-439 of the human p62^{c-Myc} protein.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

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.

REFERENCE

1. Liao D, Thakur A, Wu J, Biliran H, Sarkar FH. Perspectives on c-Myc, Cyclin D1, and Their Interaction in Cancer Formation, Progression, and Response to Chemotherapy. *Crit Rev Oncog.* 2007;13(2):93-158.
2. Britton S, Salles B, Calsou P. c-MYC protein is degraded in response to UV irradiation. *Cell Cycle.* 2007 Oct 2;7(1)
3. Chow JM, Liu CR, Lin CP, Lee CN, Cheng YC, Lin S, Liu HE. Downregulation of c-Myc determines sensitivity to 2-methoxyestradiol-induced apoptosis in human acute myeloid leukemia. *Exp Hematol.* 2008 Feb;36(2):140-8.
4. Huang CY, Bredemeyer AL, Walker LM, Bassing CH, Sleckman BP. Dynamic regulation of c-Myc proto-oncogene expression during lymphocyte development revealed by a GFP-c-Myc knock-in mouse. *Eur J Immunol.* 2008 Jan 14.

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