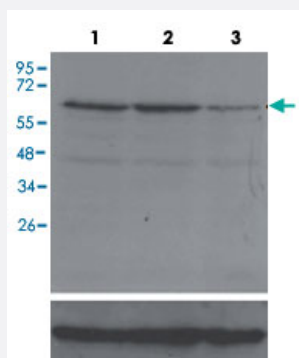


MYC (phospho S62) monoclonal antibody, clone 33A12E10

Catalog # MAB6763 Size 100 ug

Applications



Western Blot (Transfected lysate)

Western blot from crude cell extracts of AGS (gastric adenocarcinoma) cells with MYC (phospho S62) monoclonal antibody, clone 33A12E10 (Cat # MAB6763).

Lane 1 : Scrambled siRNA was introduced into the cells as a negative control.

Lane 2 : Negative control siRNA from Qiagen was transfected.

Lane 3 : siRNA for MYC was transfected.

The data was provided by A. Khanna and Dr. J. Westermark of University of Tampere.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic phosphopeptide of MYC.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S62 of human MYC.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG2b, kappa
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In antiserum (0.05% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — MYC

Entrez GeneID [4609](#)

Gene Name MYC

Gene Alias bHLHe39, c-Myc

Gene Description v-myc myelocytomatosis viral oncogene homolog (avian)

Omim ID [113970](#) [190080](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene 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. Mutations, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemia and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene. [provided by RefSeq]

Other Designations avian myelocytomatosis viral oncogene homolog|myc proto-oncogene protein|v-myc avian myelocytomatosis viral oncogene homolog

Publication Reference

- [MiR-138 downregulates miRNA processing in HeLa cells by targeting RMND5A and decreasing Exportin-5 stability.](#)

Li J, Chen Y, Qin X, Wen J, Ding H, Xia W, Li S, Su X, Wang W, Li H, Zhao Q, Fang T, Qu L, Shao N.

Nucleic Acids Research 2014 Jan; 42(1):458.

Application: IP, Human, HeLa cells

- [MYC-dependent regulation and prognostic role of CIP2A in gastric cancer.](#)

Khanna A, Bockelman C, Hemmes A, Junttila MR, Wiksten JP, Lundin M, Junnila S, Murphy DJ, Evan GI, Haglund C, Westermarck J, Ristimäki A.

Journal of the National Cancer Institute 2009 May; 101(11):793.

- [CIP2A inhibits PP2A in human malignancies.](#)

Junttila MR, Puustinen P, Niemela M, Ahola R, Arnold H, Bottzauw T, Ala-aho R, Nielsen C, Ivaska J, Taya Y, Lu SL, Lin S, Chan EK, Wang XJ, Grenman R, Kast J, Kallunki T, Sears R, Kahari VM, Westermarck J.

Cell 2007 Jul; 130(1):51.

Application: WB-Tr, Human, HEK 293 cells

- [Multiple Ras-dependent phosphorylation pathways regulate Myc protein stability.](#)

Sears R, Nuckolls F, Haura E, Taya Y, Tamai K, Nevins JR.

Genes & Development 2000 Oct; 14(19):2501.

Application: WB-Ce, Rat, REF52 cells

Pathway

- [Acute myeloid leukemia](#)
- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Colorectal cancer](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Jak-STAT signaling pathway](#)

- [MAPK signaling pathway](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)
- [TGF-beta signaling pathway](#)
- [Thyroid cancer](#)
- [Wnt signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Colorectal Neoplasms](#)
- [Diabetes Complications](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Metabolic Syndrome X](#)

- [Mouth Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)
- [Translocation](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)