

## ARG62341 anti-Myc tag antibody [Myc.A7]

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [Myc.A7] recognizes Myc tag
Tested Reactivity	Other
Tested Application	Dot, ELISA, ICC/IF, IP, WB
Specificity	Recognizes the N-terminal or C-terminal Myc-tagged fusion proteins
Host	Mouse
Clonality	Monoclonal
Clone	Myc.A7
Isotype	IgG1
Target Name	Myc tag
Immunogen	EQKLISEEDL (Myc) synthetic peptide conjugated to KLH.
Conjugation	Un-conjugated
Alternate Names	c-Myc; MRTL; MYCC; Class E basic helix-loop-helix protein 39; Proto-oncogene c-Myc; bHLHe39; Myc proto-oncogene protein; Transcription factor p64

### Application Instructions

Application table	Application	Dilution
	Dot	Assay-dependent
	ELISA	Assay-dependent
	ICC/IF	1:500-2000
	IP	Assay-dependent
	WB	1:1000-1:3000
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

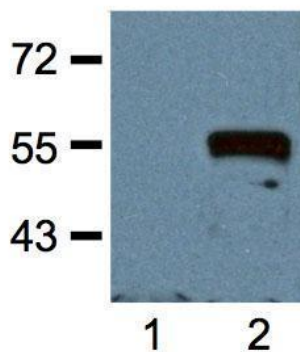
Form	Liquid
Purification	Protein A Purified
Purification Note	Protein A affinity chromatography from mouse ascites fluid.
Buffer	10mM PBS (pH 7.2) and 0.05% Sodium azide
Preservative	0.05% Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	MYC
Gene Full Name	v-myc avian myelocytomatosis viral oncogene homolog
Background	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, leukemias 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, Jul 2008]
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. [UniProt]
Research Area	Cancer antibody; Controls and Markers antibody; Developmental Biology antibody; Gene Regulation antibody; Signaling Transduction antibody
PTM	Phosphorylated by PRKDC. Phosphorylation at Ser-329 by PIM2 leads to the stabilization of MYC (By similarity). Phosphorylation at Ser-62 by CDK2 prevents Ras-induced senescence. Phosphorylated at Ser-62 by DYRK2; this primes the protein for subsequent phosphorylation by GSK3B at Thr-58. 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. Ubiquitinated by TRIM6 in a phosphorylation-independent manner (By similarity).

## Images



ARG62341 anti-Myc tag antibody [Myc.A7] WB image

Western Blot: HEK293 cells transfected with Myc-tagged protein vector; (1) untransfected and (2) transfected stained with ARG62341 anti-Myc tag antibody [Myc.A7] at 1:1000 (1 µg/mL) dilution