C-MYC (MYC) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	C-MYC, Polyclonal Antibody
Full Product Name	FITC Conjugated Rabbit anti-C-MYC
Product Gene Name	anti-MYC antibody
Product Synonym Names	FITC Conjugated Rabbit anti-C-Myc tag; anti-C-MYC
Clonality	Polyclonal
Host	Rabbit
Form/Format	Liquid
Purity/Purification	FITC A.P.
Preparation and Storage	Store at 4 degree C. Shelf Life: 12 months after shipment date.
Molecular Weight	7,012 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (128748315..128753680). Location: 8q24.21
3D Structure	ModBase 3D Structure for Q6LBK7
Buffer	Phosphate buffered saline, pH 7.2 with 0.2% BSA
Preservative	0.1% sodium azide
Procedure	Rabbits were immunized with EQKLISEEDL (C-MYC) conjugated with KLH. After multiple immunizations in Freunds adjuvant, serum was collected. Antibodies were immunoaffinity purified using the peptide immobilized on a solid phase.
Product Categories/Family for anti-MYC antibody	Epitope tag
Application Notes for anti-MYC antibody	Antibody specificity was verified by ELISA and Western Blot analyses prior to conjugation with Fluorescein isothiocyanate (FITC). Recommended starting dilution for IF: 1:250. Molar F/P ratio is 3 - 6.
Related Product Information for anti-MYC antibody	Rabbits were immunized with C-MYC peptide conjugated to a carrier protein. The resulting antiserum was passed over an antigen containing immunoabsorbant from which the anti-C-MYC was immunoaffinity purified. Purification was followed by conjugation with fluorescein isothiocyanate (FITC).
Other Notes	Small volumes of anti-MYC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MYC purchase	MBS560578 is an antibody targeting MYC. Also known as FITC Conjugated Rabbit anti-C-MYC. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYC. It may not necessarily be applicable to this product.

NCBI GI #	396512
NCBI GeneID	4609
UniProt Primary Accession #	Q6LBK7
UniProt Related Accession #	P01106; Q14899; Q14901; Q16591; Q6LBK7; Q7KZ54

NCBI Official Full Name	c-myc
NCBI Official Synonym Full Names	v-myc myelocytomatosis viral oncogene homolog (avian)
NCBI Official Symbol	MYC
NCBI Official Synonym Symbols	MRTL; c-Myc; bHLHe39
UniProt Protein Name	C-myc protein
Protein Family	Myc protein
UniProt Gene Name	c-myc
UniProt Entry Name	Q6LBK7_HUMAN
NCBI Protein Information	myc proto-oncogene protein; OTTHUMP00000158589; OTTHUMP00000227763; proto-oncogene c-Myc; transcription factor p64; class E basic helix-loop-helix protein 39; avian myelocytomatosis viral oncogene homolog; v-myc avian myelocytomatosis viral oncogene homolog; myc-related translation/localization regulatory factor
NCBI Summary for MYC	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]
UniProt Comments for MYC	Myc: a proto-oncogenic transcription factor that plays a role in cell proliferation, apoptosis and in the development of human tumors. Seems to activate the transcription of growth-related genes. Protein type: Nucleolus; Transcription factor; DNA-binding; Oncoprotein Chromosomal Location of Human Ortholog: 8q24.21 Cellular Component: nucleoplasm; protein complex; nucleolus; nucleus; cytosol Molecular Function: protein dimerization activity; protein binding; DNA binding; protein complex binding; transcription factor activity; transcription factor binding Biological Process: oxygen transport; cellular iron ion homeostasis; positive regulation of transcription, DNA-dependent; positive regulation of caspase activity; Wnt receptor signaling pathway through beta-catenin; negative regulation of transcription from RNA polymerase II promoter; chromosome organization and biogenesis; positive regulation of fibroblast proliferation; transforming growth factor beta receptor signaling pathway; positive regulation of mesenchymal cell proliferation; positive regulation of cell proliferation; response to gamma radiation; cell cycle arrest; response to drug; transcription initiation from RNA polymerase II promoter; Notch signaling pathway; regulation of telomere maintenance; transcription, DNA-dependent; MAPKKK cascade; negative regulation of cell division; negative regulation of monocyte differentiation; negative regulation of stress-activated MAPK cascade; chromatin remodeling; regulation of gene expression; ureteric bud branching; negative regulation of fibroblast proliferation; energy reserve metabolic process; gene expression; positive regulation of transcription from RNA polymerase II promoter; response to DNA damage stimulus; positive regulation of epithelial cell proliferation; negative regulation of apoptosis Disease: Burkitt Lymphoma
Research Articles on MYC	**1.** MYC amplification is a prognostic marker of patients with early-stage lung adenocarcinoma
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