



c-Myc (phospho Ser62) Polyclonal Antibody

Catalog No	YP-Ab-01382
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	MYC
Immunogen	The antiserum was produced against synthesized peptide derived from human Myc around the phosphorylation site of Ser62. AA range:31-80
Specificity	Phospho-c-Myc (S62) Polyclonal Antibody detects endogenous levels of c-Myc protein only when phosphorylated at S62.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	c-MYC (Ser62);p c-MYC;p c-MYC (Ser62);p c-MYC Ser62;p-c-MYC;c-Myc;MYC;Myc proto-oncogene protein;BHLHE39;Class E basic helix-loop-helix protein 39;Proto-oncogene c-Myc;Transcription factor p64
Observed Band	50,(also ~60KD in some samples)
Calculated Molecular Weight	50,(also ~60KD in some samples)
Cell Pathway	Nucleus, nucleoplasm . Nucleus, nucleolus .
Tissue Specificity	Cervix,Epithelium,Leukemia,Placenta,Promyelocytic l
Function	disease:A chromosomal aberration involving MYC may be a cause of a form of B-cell chronic lymphocytic leukemia. Translocation t(8;12)(q24;q22) with BTG1., disease:Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors.,function:Participates in the regulation of gene transcription. Binds DNA both in a non-specific manner and also specifically to recognizes the core sequence 5'-CAC[GA]TG-3'. Seems to activate the transcription of growth-related genes.,online information:Myc entry, PTM:Phosphorylated by PRKDC.,similarity:Contains 1 basic helix-loop-helix

(bHLH) domain.,subunit:Efficient DNA binding requires dimerization with another bHLH protein. Binds DNA as a heterodimer with MAX. Interacts with TAF1C and SPAG9. Interacts with PARP10. Interacts with KDM5A and KDM5B.,

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],

matters needing attention

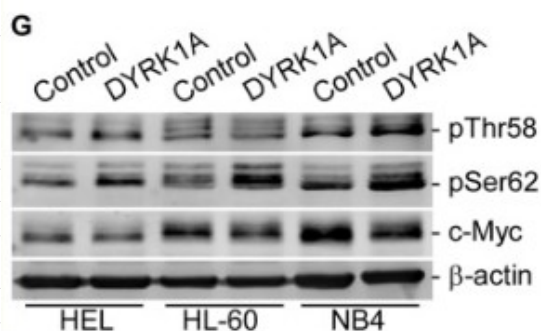
Avoid repeated freezing and thawing!

Usage suggestions

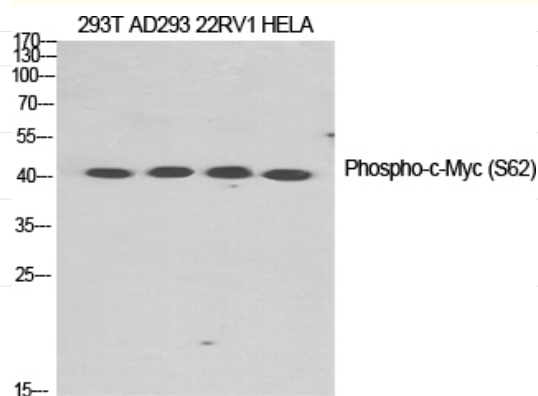
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



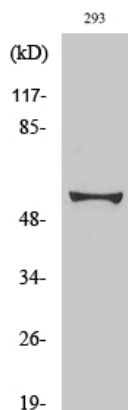
Products Images



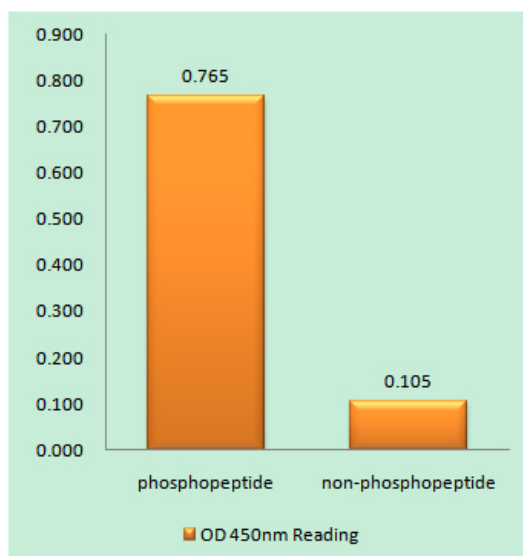
Liu, Qiang, et al. "Tumor suppressor DYRK1A effects on proliferation and chemoresistance of AML cells by downregulating c-Myc." PloS one 9.6 (2014): e98853.



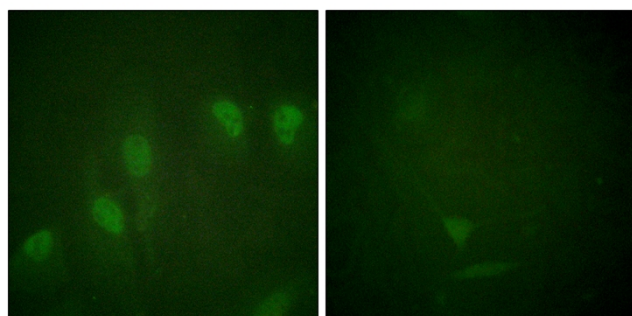
Western Blot analysis of various cells using Phospho-c-Myc (S62) Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293 cells using Phospho-c-Myc (S62) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Myc (Phospho-Ser62) Antibody



Immunofluorescence analysis of HeLa cells treated with Forskolin 40nM 30', using Myc (Phospho-Ser62) Antibody. The picture on the right is blocked with the phosphopeptide.