Best Tools for immunology Research

c-Myc (phospho Ser373) Polyclonal Antibody

Catalog No :	YP0067
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;IP;ELISA
Target :	c-Myc
Fields :	>>MAPK signaling pathway;>>ErbB signaling pathway;>>Cell cycle;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>Wnt signaling pathway;>>TGF-beta signaling pathway;>>Hippo signaling pathway;>>Signaling pathways regulating pluripotency of stem cells;>>JAK-STAT signaling pathway;>>Thyroid hormone signaling pathway;>>Salmonella infection;>>Hepatitis C;>>Hepatitis B;>>Human cytomegalovirus infection;>>Human T-cell leukemia virus 1 infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Proteoglycans in cancer;>>MicroRNAs in cancer;>>Chemical carcinogenesis - receptor activation;>>Colorectal cancer;>>Endometrial cancer;>>Thyroid cancer;>>Bladder cancer;>>Chronic myeloid leukemia;>>Acute myeloid leukemia;>>Small cell lung cancer;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer;>>Central carbon metabolism in cancer
Gene Name :	MYC
Protein Name :	Myc proto-oncogene protein
Human Gene Id :	4609
Human Swiss Prot No :	P01106
Mouse Gene Id :	17869
Mouse Swiss Prot No :	P01108
Rat Gene Id :	24577
Rat Swiss Prot No :	P09416

Immunogen : The antiserum was produced against synthesized peptide derived from human Myc around the phosphorylation site of Ser373. AA range:340-389

Specificity : Phospho-c-Myc (S373) Polyclonal Antibody detects endogenous levels of c-Myc protein only when phosphorylated at S373.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source : Polyclonal, Rabbit,IgG

Dilution : IHC 1:100 - 1:300. Immunoprecipitation: 2-5 ug:mg lysate. ELISA: 1:20000.. IF 1:50-200

Purification : The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 50,(also ~60KD in some samples)

Cell Pathway : Stem cell pathway; Cell_Cycle_G1S;Cell_Cycle_G2M_DNA; WNT;WNT-T CELL;β-Catenin; ErbB/HER; MAPK_ERK_Growth;MAPK_G_Protein; PI3K/Akt; Protein_Acetylation

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],

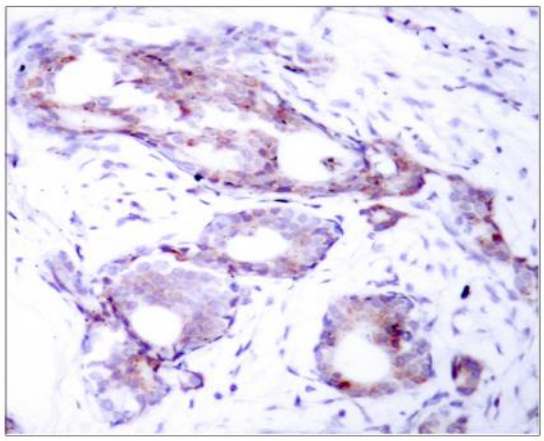
Function : disease:A chromosomal aberration involving MYC may be a cause of a form of B-cell chronic lymphocytic leukemia. Translocation t(8;12)(q24;q22) with BTG1.,disease:Overexpression of MYC is implicated in the etiology of a variety of hematopoietic tumors.,function:Participates in the regulation 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.,

Subcellular Location : Nucleus, nucleoplasm . Nucleus, nucleolus .

Expression : Cervix,Epithelium,Leukemia,Placenta,Promyelocytic l

Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Myc (Phospho-Ser373) Antibody.