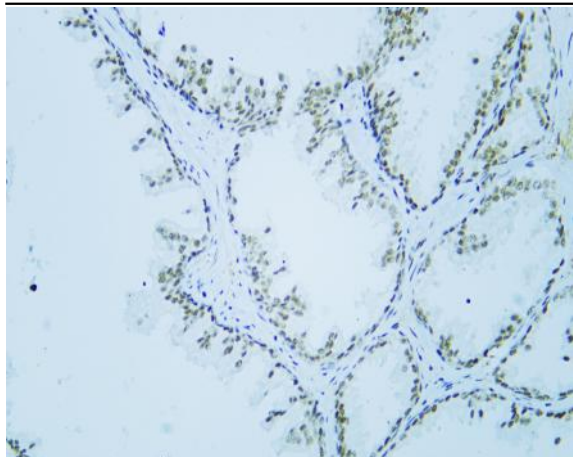


**c-MYC (PTR2340) Mouse mAb**

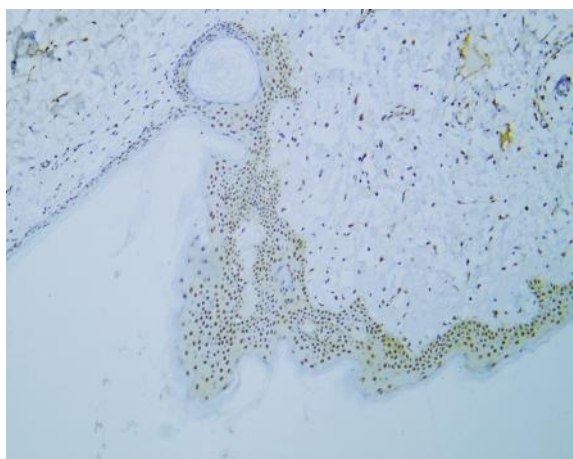
<b>Catalog No :</b>	YM4677
<b>Reactivity :</b>	Human (predicted: Mouse; Rat)
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	c-Myc
<b>Fields :</b>	>>MAPK signaling pathway;>>ErbB signaling pathway;>>Cell cycle;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>Wnt signaling pathway;>>TGF-beta signaling 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
<b>Gene Name :</b>	MYC BHLHE39
<b>Protein Name :</b>	Myc proto-oncogene protein (Class E basic helix-loop-helix protein 39) (bHLHe39) (Proto-oncogene c-Myc) (Transcription factor p64)
<b>Human Gene Id :</b>	4609
<b>Human Swiss Prot No :</b>	P01106
<b>Mouse Gene Id :</b>	17869
<b>Mouse Swiss Prot No :</b>	P01108
<b>Rat Gene Id :</b>	24577
<b>Rat Swiss Prot No :</b>	P09416

<b>Immunogen :</b>	Synthesized peptide derived from human c-MYC AA range: 340-438
<b>Specificity :</b>	This antibody detects endogenous levels of c-MYC at Human, Mouse,Rat
<b>Formulation :</b>	PBS, pH7.4, 50% glycerol, 0.03%Proclin 300
<b>Source :</b>	Mouse, monoclonal IgG2b,Kappa
<b>Dilution :</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Purification :</b>	Protein G
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	48kDa
<b>Background :</b>	<p>v-myc avian myelocytomatosis viral oncogene homolog(MYC) Homo sapiens</p> <p>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],</p>
<b>Function :</b>	<p>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.,</p>
<b>Subcellular Location :</b>	Nucleus, nucleoplasm . Nucleus, nucleolus .

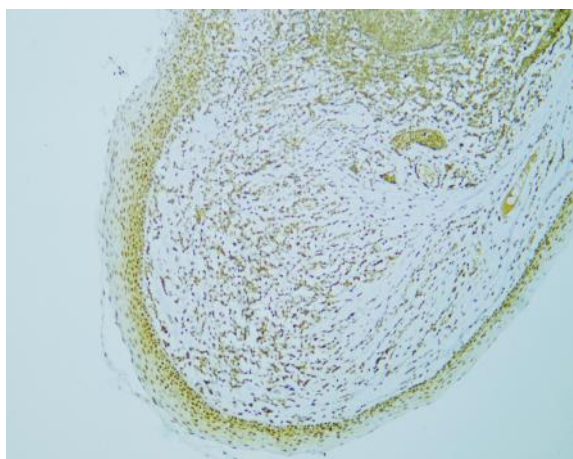
## Products Images



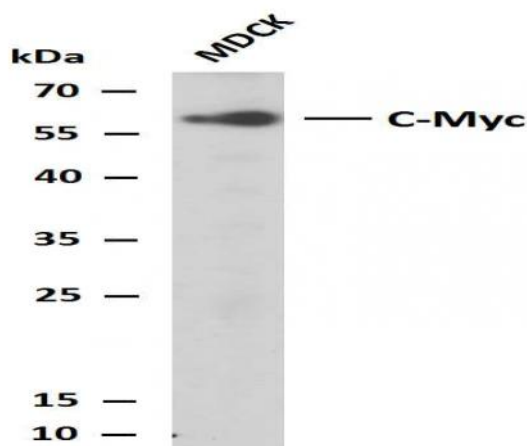
Human prostate tissue was stained with Anti-c-MYC (PTR2340) Antibody



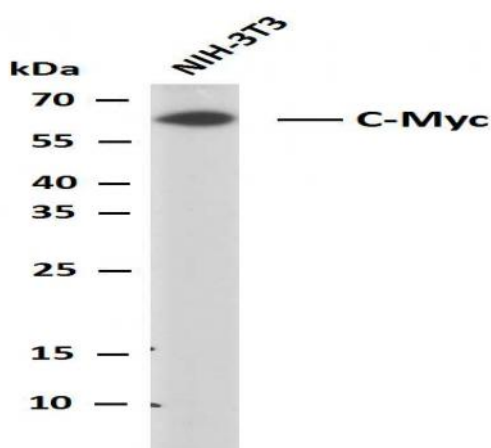
Human skin tissue was stained with Anti-c-MYC (PTR2340) Antibody



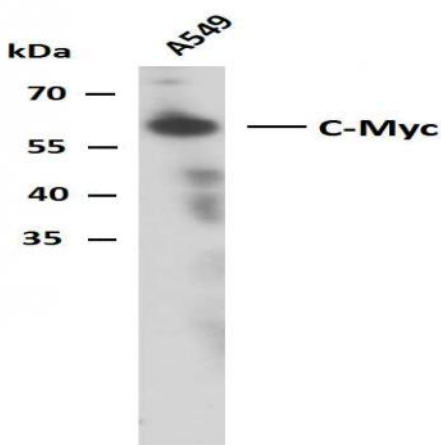
Human tonsil tissue was stained with Anti-c-MYC (PTR2340) Antibody



Whole cell lysates of MDCK were separated by 12% SDS-PAGE, and the membrane was blotted with anti-C-Myc(PTR2340) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: MDCK Predicted band size: 49kDa Observed band size: 57kDa



Whole cell lysates of NIH-3T3 were separated by 12% SDS-PAGE, and the membrane was blotted with anti-C-Myc(PTR2340) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Predicted band size: 49kDa Observed band size: 57kDa



Whole cell lysates of A549 were separated by 12% SDS-PAGE, and the membrane was blotted with anti-C-Myc antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A549 Predicted band size: 49kDa Observed band size: 57kDa