

Product datasheet for **TA336686**

c-Myc (MYC) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, ELISA, ICC/IF, IHC, IP, Simple Western, WB
Recommended Dilution:	Chromatin Immunoprecipitation (ChIP), Immunohistochemistry: 1:100, Immunocytochemistry/ Immunofluorescence: 1:50, Immunoprecipitation: 1:1000, Western Blot: 1:1000, Immunohistochemistry-Paraffin: 1:100, Simple Western: 1:500, ELISA: 1:1000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	A synthetic peptide made to the human c-Myc protein (between residues 400-450) [UniProt P01106]
Formulation:	PBS, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	v-myc avian myelocytomatosis viral oncogene homolog
Database Link:	NP_002458 Entrez Gene 17869 Mouse Entrez Gene 4609 Human P01106

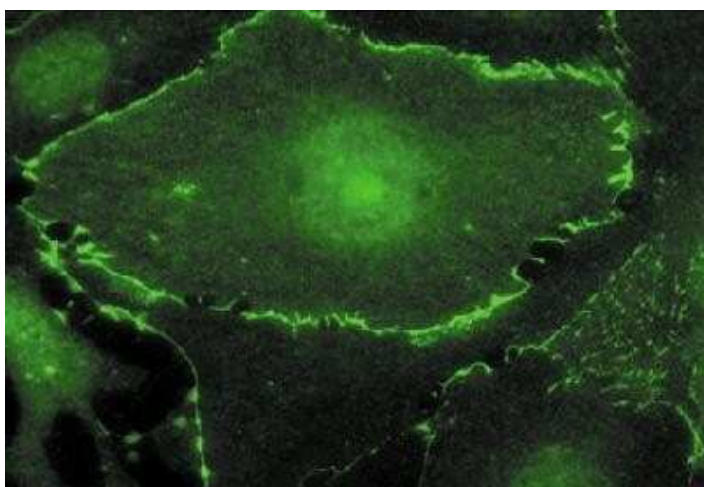
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Background:	<p>Myc genes are a family of proto-oncogenes (L- Myc, N- Myc and C- Myc) that codes for Myc proteins which are transcriptor factors implicated in cellular proliferation, differentiation, apoptosis, metabolism, adhesion and self-renovation of tumor stem cells. Myc protein can act as transcriptional activator/repressor, and is activated via response to diverse mitogenic signals (including Wnt, Shh and EGF) and has been found to be up-regulated in several types of cancers. c-Myc participates gene transcription regulation and binds DNA in a non-specific manner, yet can specifically recognizes core sequence 5'-CAC[GA]TG-3' also. c-Myc heterodimerization with another bHLH protein namely Myc-associated factor X (MAX) is required for efficient c-Myc- DNA binding. c-Myc interacts with several proteins such as TAF1C, SPAG9, PARP10, KDM5A, KDM5B, NO66, PIM2 and with FBXW7 when phosphorylated at Thr-58/Ser-62. c-Myc activate the transcription of growth-related genes and c- Myc overexpression induce cell-cycle progression thereby implicating in a variety of cancers. Moreover, a chromosomal aberration involving c-Myc has been linked to a form of B-cell chronic lymphocytic leukemia and defective c-MYC is responsible for Burkitt lymphoma also.</p>
Synonyms:	bHLHe39; c-Myc; MRTL; MYCC
Note:	<p>This c-Myc antibody is useful for ELISA, Western Blot, Immunocytochemistry/Immunofluorescence, Western Blot, Immunoprecipitation, and Immunohistochemistry-paraffin embedded sections. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.</p>
Protein Families:	<p>Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors</p>
Protein Pathways:	<p>Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway, Thyroid cancer, Wnt signaling pathway</p>

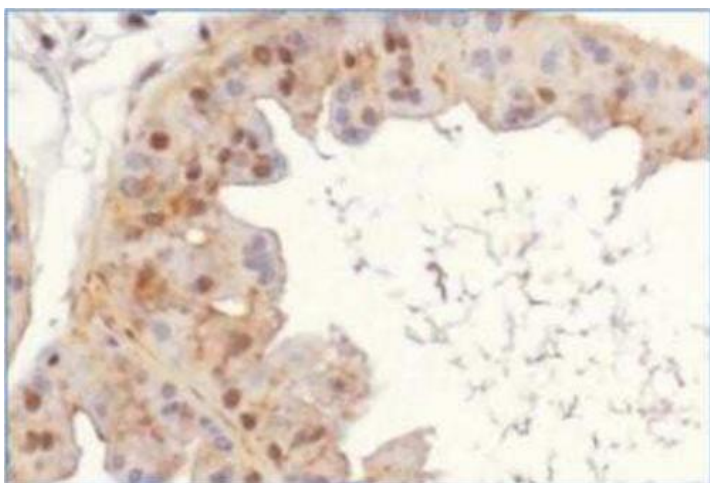
Product images:



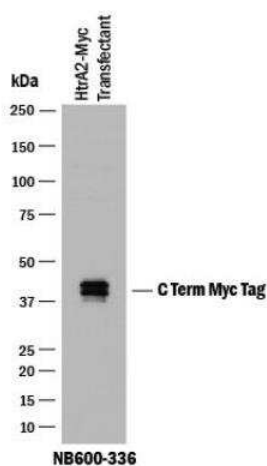
Simple Western: c-Myc Antibody TA336686 - Lane view shows a specific band for c-Myc in 0.05 mg/ml of Jurkat lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



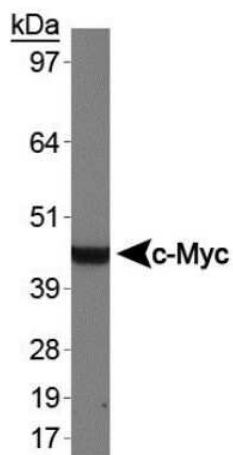
Immunocytochemistry/Immunofluorescence: c-Myc Antibody TA336686 - Detection of c-myc Tagged Plakoglobin by Immunofluorescence. Samples: Human microvascular endothelial cells expressing c-myc tagged plakoglobin following transient transfection.



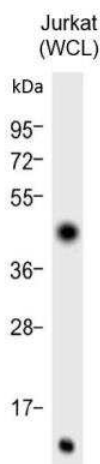
Immunohistochemistry: c-Myc Antibody TA336686 - Analysis of c-Myc in mouse prostate using DAB with hematoxylin counterstain.



Western Blot: c-Myc Antibody TA336686 - Detection of c-Myc in HtrA2-Myc Transfectant lysates .



Western Blot: c-Myc Antibody TA336686 - Analysis of c-Myc on Jurkat whole cell extract using TA336686.



Western Blot: c-Myc Antibody TA336686 - Analysis of whole cell lysate (WCL) of Jurkat cells using anti-cMyc antibody (TA336686) at 1:1000 dilution. HRP conjugated goat anti-rabbit IgG (H+L) cross adsorbed secondary antibody was used with ECL substrate for the detection of c-Myc antibody bound to the blotted protein. This c-Myc antibody detected the c-Myc specific band at its expected position (48-50kDa). The signal below 10 kDa in this blot is potentially the degraded protein and we have not characterized this band.