OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA336685

c-Myc (MYC) Mouse Monoclonal Antibody [Clone ID: 9E10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9E10
Applications:	ChIP, ELISA, FC, ICC/IF, IHC, Immunoblotting, IP, Sandwich ELISA, Simple Western, WB
Recommended Dilution:	Flow (Intracellular), Chromatin Immunoprecipitation (ChIP), Immunoblotting, Sandwich ELISA, Flow Cytometry: 1:50-1:200, Proximity Ligation Assay, Immunohistochemistry-Paraffin: 1:50-1:200, Immunohistochemistry-Frozen: 1:50-1:200, Western Blot: 0.5-2.0 ug/ml, Simple Western: 1:200, ELISA: 1:100-1:2000, Immunohistochemistry: 1:50-1:200, Immunocytochemistry/ Immunofluorescence: 1:50-1:200, Immunoprecipitation: 1:10-1:500
Reactivity:	Human, Mouse, Drosophila
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to amino acids 408-439 (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA) of human c-Myc. [UniProt# P01106]
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G 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 MouseEntrez Gene 4609 Human P01106

View online »

Background: 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.

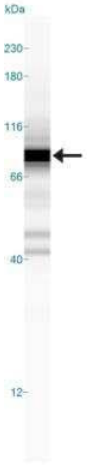
Synonyms: bHLHe39; c-Myc; MRTL; MYCC

Note: This c-Myc antibody clone 9E10 is useful for Flow Cytometry (PMID: 21315712), Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin and Immunoprecipitation.

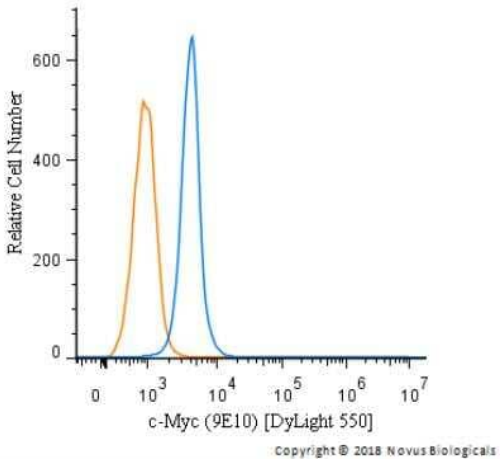
Protein Families: Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors

Protein Pathways: 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

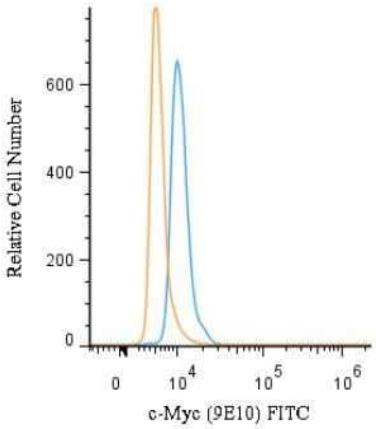
Product images:



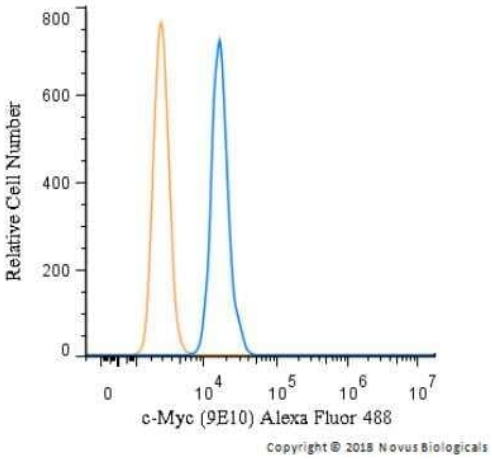
Simple Western: c-Myc Antibody (9E10) TA336685 - Simple Western lane view shows a specific band for c-Myc in 0.5 mg/ml of Jurkat lysate. This experiment as performed under reducing conditions using the 12-230 kDa separation system.



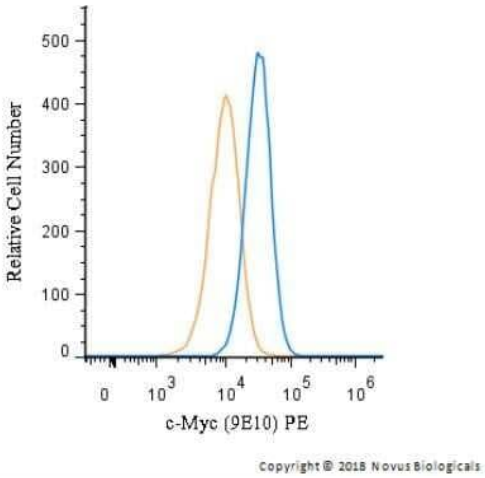
Flow Cytometry: c-Myc Antibody (9E10) TA336685 - An intracellular stain was performed on Jurkat cells with c-Myc Antibody (9E10) TA336685R (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 550.



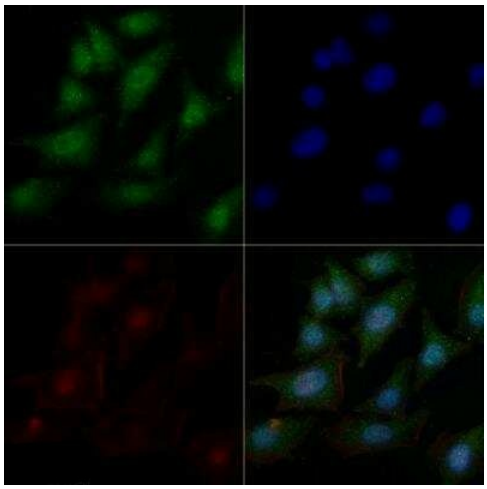
Flow (Intracellular): c-Myc Antibody (9E10) TA336685 - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) TA336685F (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to FITC.. Using the FITC format of this antibody.



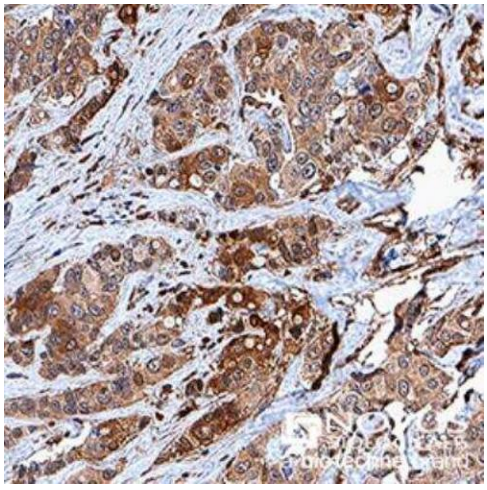
Flow Cytometry: c-Myc Antibody (9E10) TA336685 - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) TA336685AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



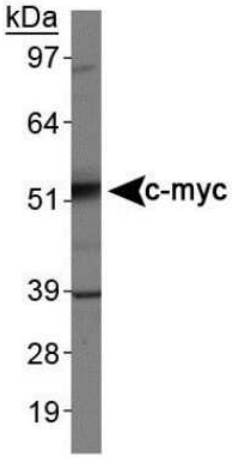
Flow (Intracellular): c-Myc Antibody (9E10) TA336685 - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) TA336685PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.. Using the PE format of this antibody.



Immunocytochemistry/Immunofluorescence: c-Myc Antibody (9E10) TA336685 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-c-Myc (9E10) at 10 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: c-Myc Antibody (9E10) TA336685 - c-Myc was detected in immersion fixed paraffin-embedded sections of human breast cancer using anti-human mouse monoclonal antibody (Catalog # TA336685, clone 9E10) at 1:50 dilution overnight at 4 C. Tissue was stained using the VisuCyte anti-mouse HRP polymer detection reagent (Catalog # VC001) with DAB chromogen (brown) and counterstained with hematoxylin (blue).



Western Blot: c-Myc Antibody (9E10) TA336685 - Analysis of c-myc in Jurkat cell lysates using TA336685.