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 TA336584

c-Myc (MYC) Mouse Monoclonal Antibody [Clone ID: 9E11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9E11
Applications:	CyTOF-ready, ELISA, FC, ICC/IF, IHC, IP, WB
Recommended Dilution:	Flow (Intracellular), Chromatin Immunoprecipitation (ChIP): 2 ug/ 500 ug extract, ELISA: 1:100-1:2000, Flow Cytometry: 1:200-1:400, Immunohistochemistry: 1:100, Immunoprecipitation: 2ug/mg lysate, Western Blot: 1:500-1:1000, Immunohistochemistry-Paraffin: 1:100, Immunocytochemistry/ Immunofluorescence, CyTOF-ready, Immunohistochemistry-Frozen: 1:100
Reactivity:	Human, Mouse, Chicken, Yeast
Host:	Mouse
Isotype:	IgG2a, kappa
Clonality:	Monoclonal
Immunogen:	A synthetic peptide corresponding to amino acids 408-420 (AEEQKLISEEDL) of human c-Myc, conjugated to KLH. [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 A 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

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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.

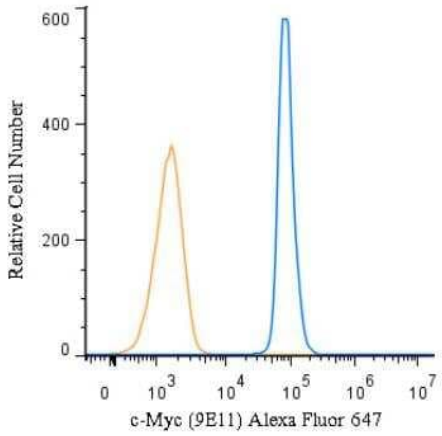
Synonyms: bHLHe39; c-Myc; MRTL; MYCC

Note: This c-Myc antibody (clone 9E11) is useful for Flow Cytometry, ChIP, Immunoprecipitation, ELISA, Immunohistochemistry- Frozen and Paraffin and Western blot.

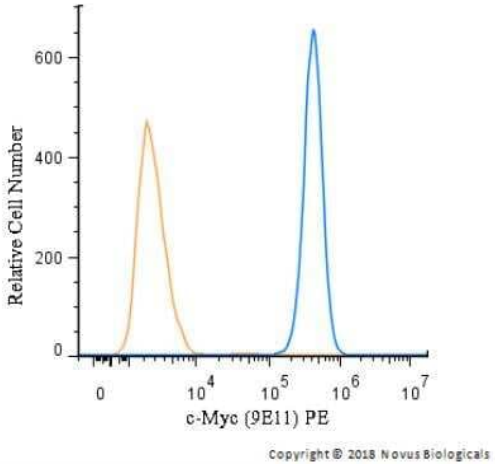
Protein Families: Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription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

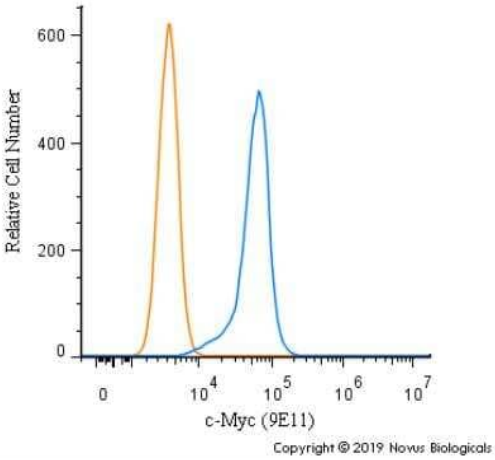
Product images:



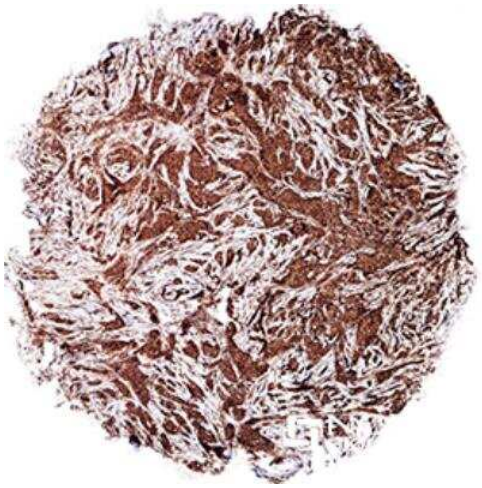
Flow (Intracellular): c-Myc Antibody (9E11) TA336584 - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E11) TA336584AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



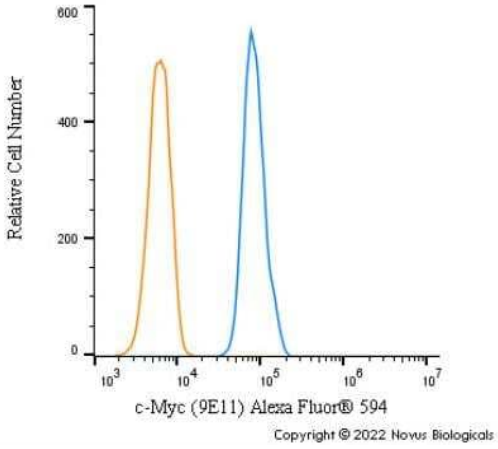
Flow Cytometry: c-Myc Antibody (9E11) TA336584 - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E11) TA336584PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerthrin.



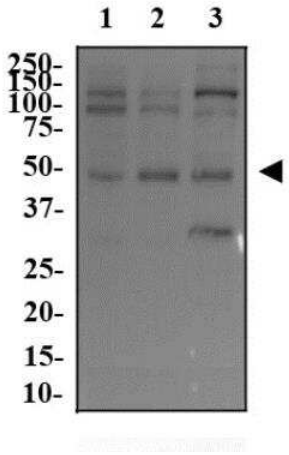
Flow Cytometry: c-Myc Antibody (9E11) TA336584 - An intracellular stain was performed on U-937 cells with c-Myc Antibody [9E11] TA336584 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0 ug/mL for 30 minutes at room temperature, followed by Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody.



Immunohistochemistry-Paraffin: c-Myc Antibody (9E11) TA336584 - c-Myc was detected in immersion fixed paraffin-embedded sections of human breast cancer using anti-human mouse monoclonal antibody (Catalog # TA336584, clone 9E11) at 1:600 dilution overnight at 4C. Tissue was stained using the VisuCyte anti-mouse HRP polymer detection reagent (Catalog # VC001) with DAB chromogen (brown) and counterstained with hematoxylin (blue).



Flow Cytometry: c-Myc Antibody (9E11) TA336584 - An intracellular stain was performed on U937 cells with c-Myc [9E11] Antibody TA336584AF594 (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 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 594.



Western Blot: c-Myc Antibody (9E11) TA336584 - Whole cell protein from PC3 (lane 1), U-2 OS (lane 2) and mouse testis (lane 3) was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-c-Myc in 1% milk, and detected with an anti-mouse HRP secondary antibody using chemiluminescence.