

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 Mouse Entrez 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 transcription 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 recognize 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:

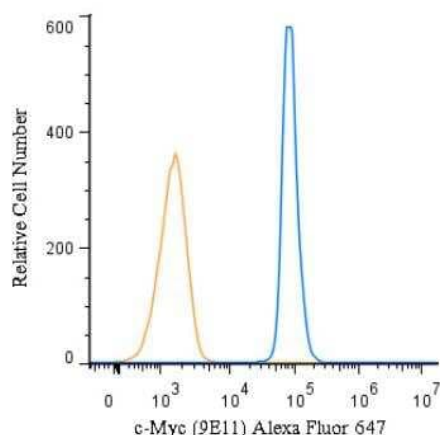
This c-Myc antibody (clone 9E11) is useful for Flow Cytometry, ChIP, Immunoprecipitation, ELISA, Immunohistochemistry- Frozen and Paraffin and Western blot.

Protein Families:

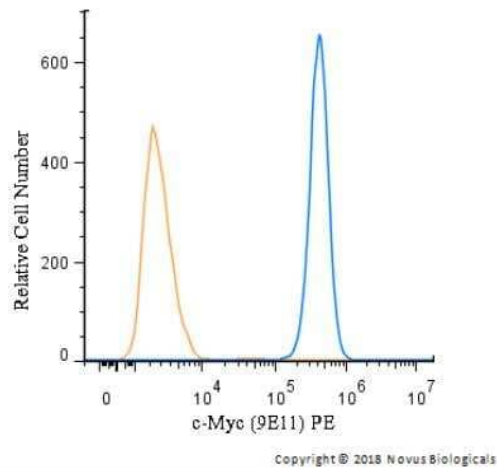
Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors

Protein Pathways:

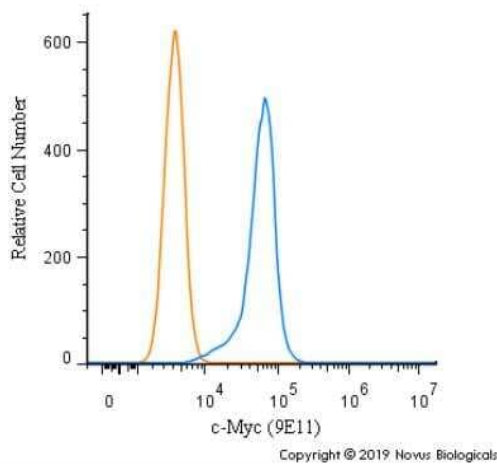
Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway, Thyroid cancer, Wnt signaling pathway

Product images:


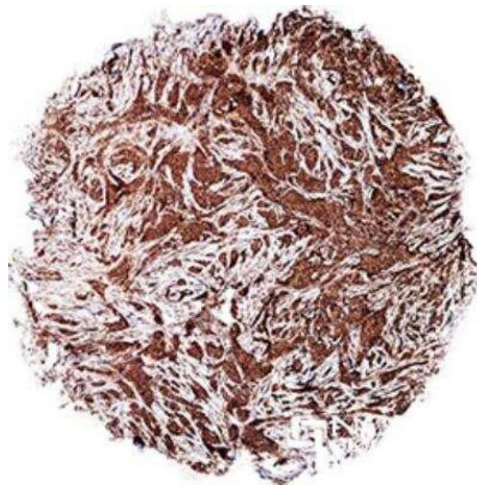
Flow (Intracellular): c-Myc Antibody (9E11) TA336584 - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E11) TA336584AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody 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).

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