

# Product Datasheet

## c-Myc Antibody (9E10) - BSA Free NB600-302

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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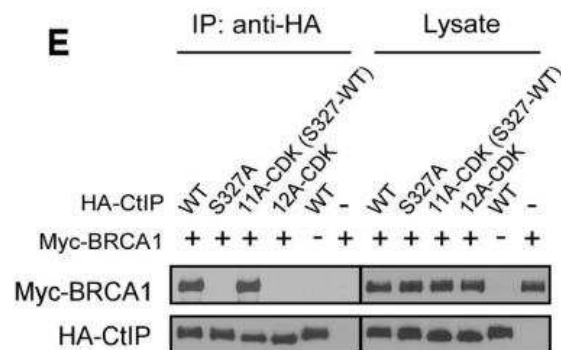
**NB600-302**

c-Myc Antibody (9E10) - BSA Free

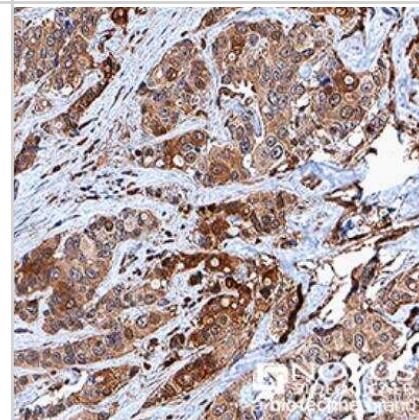
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	9E10
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	48.8 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	4609
<b>Gene Symbol</b>	MYC
<b>Species</b>	Human, Mouse, Bovine, Drosophila
<b>Specificity/Sensitivity</b>	Specific for the c-myc protein in random coil configuration, not as a helix. 9E10 does not react with V-myc.
<b>Immunogen</b>	A synthetic peptide corresponding to amino acids 408-439 (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA) of human c-Myc Antibody (9E10). [UniProt# P01106]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, ELISA, Flow Cytometry, Flow (Intracellular), Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Proximity Ligation Assay, Sandwich ELISA, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 0.5-2.0 ug/ml, Simple Western 1:200, Flow Cytometry 1:50-1:200. Use reported in scientific literature (PMID 21315712), ELISA 1:100-1:2000, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:50-1:200, Immunohistochemistry-Frozen 1:50-1:200, Immunoblotting reported in scientific literature (PMID 23750001), Proximity Ligation Assay reported in scientific literature (PMID 33298911), Sandwich ELISA reported in scientific literature (PMID 33122198), Flow (Intracellular), Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	Simple Western reported by an internal validation. Separated by Size-Jess/Wes, Sally Sue/Peggy Sue, antibody dilution of 1:100; matrix was 12-230 kDa.

## Images

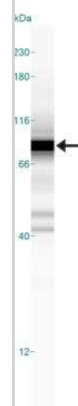
Western Blot: c-Myc Antibody (9E10) [NB600-302] - CtIP is phosphorylated by CDKs at multiple sites. Myc-BRCA1 and/or HA-CtIP WT or indicated mutants were expressed in 293T cells and co-immunoprecipitation was performed. Image collected and cropped by CiteAb from the following publication ([//doi.org/10.1371/journal.pgen.1003277](https://doi.org/10.1371/journal.pgen.1003277)) licensed under a CC-BY license.



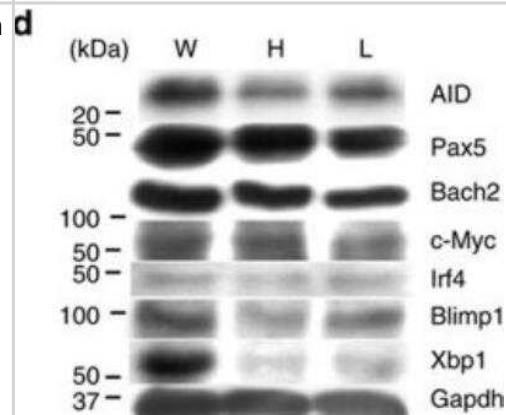
Immunohistochemistry-Paraffin: c-Myc Antibody (9E10) [NB600-302] - c-Myc was detected in immersion fixed paraffin-embedded sections of human breast cancer using anti-human mouse monoclonal antibody (Catalog # NB600-302, clone 9E10) at 1:50 dilution overnight at 4 C. Tissue was stained using the VisuCyte anti-mouse HRP polymer detection reagent (Catalog # VC001) with DAB chromogen (brown) and counterstained with hematoxylin (blue). Images may not be copied, printed or otherwise disseminated without express written permission of Novus Biologicals a bio-techne brand.



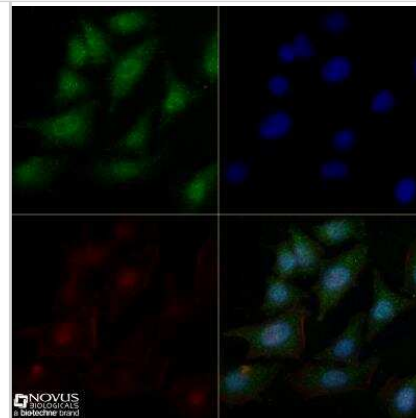
Simple Western: c-Myc Antibody (9E10) [NB600-302] - Simple Western lane view shows a specific band for c-Myc in 0.5 mg/ml of Jurkat lysate. This experiment as performed under reducing conditions using the 12-230 kDa separation system.



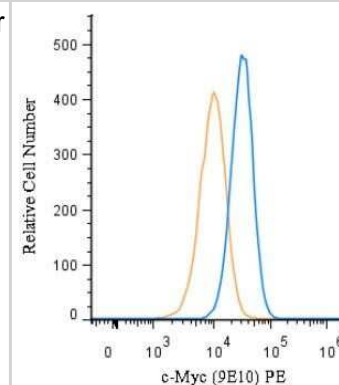
Western Blot: c-Myc Antibody (9E10) - BSA Free [NB600-302] - Western blotting analysis of unsorted (W) and sorted ROSI degrees w(L) and ROShigh(H) cells. Data shown are representative of at least two independent experiments. DyLight 650 conjugated version of this antibody used (NB600-302C). Image collected and cropped by CiteAb from the following publication ([//pubmed.ncbi.nlm.nih.gov/25857523/](https://pubmed.ncbi.nlm.nih.gov/25857523/)) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: c-Myc Antibody (9E10) [NB600-302] - 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.

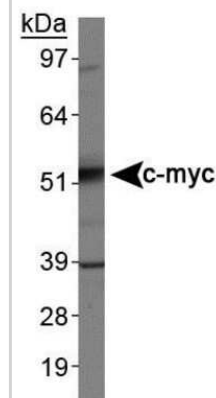


Flow (Intracellular): c-Myc Antibody (9E10) [NB600-302] - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) NB600-302PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin. Using the PE format of this antibody.

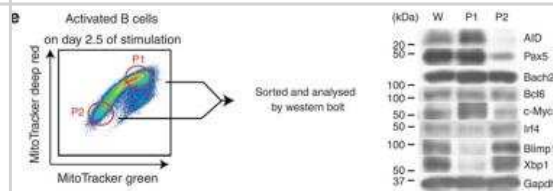


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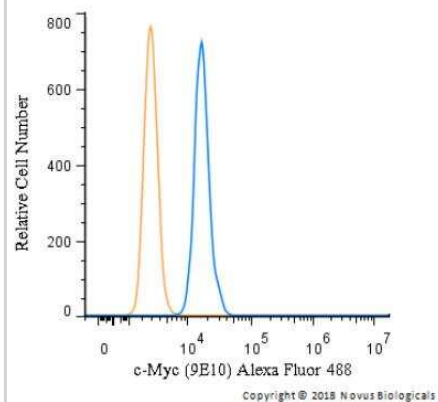
Western Blot: c-Myc Antibody (9E10) [NB600-302] - Analysis of c-myc in Jurkat cell lysates using NB600-302.



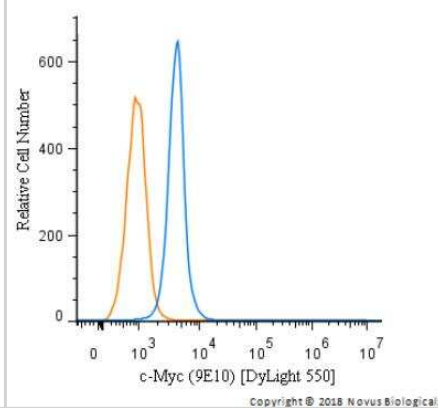
Western Blot: c-Myc Antibody (9E10) [NB600-302] - Flow cytometric analysis of ROS and the mitochondrial status. Western blotting analysis of unsorted (W) and sorted P1 and P2 cells. Data shown are representative of at least two independent experiments. Image collected and cropped by CiteAb from the following publication ([www.nature.com/articles/ncomms7750](http://www.nature.com/articles/ncomms7750)) licensed under a CC-BY license.



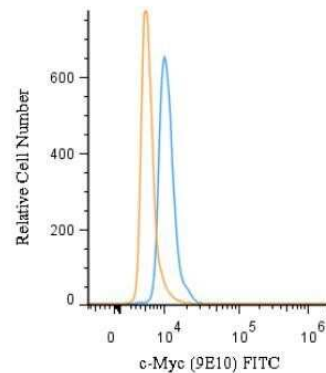
Flow Cytometry: c-Myc Antibody (9E10) [NB600-302] - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) NB600-302AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 10 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Flow Cytometry: c-Myc Antibody (9E10) [NB600-302] - An intracellular stain was performed on Jurkat cells with c-Myc Antibody (9E10) NB600-302R (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) [NB600-302] - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) NB600-302F (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.



## Publications

Graziani V, Garcia AR, Alcolado LS et al. Metabolic rewiring in MYC-driven medulloblastoma by BET-bromodomain inhibition *Scientific Reports* 2023-01-23 [PMID: 36690651] (WB, B/N)

Jezek M, Sun W, Negesse MY et al. Set1 regulates telomere function via H3K4 methylation-dependent and -independent pathways and calibrates the abundance of telomere maintenance factors *Molecular Biology of the Cell* 2023-01-01 [PMID: 36416860] (WB)

Wang F, Gao Y, Xue S et al. SCARB2 drives hepatocellular carcinoma tumor initiating cells via enhanced MYC transcriptional activity *Nat Commun* 2023-09-22 [PMID: 37739936]

Basu H, Pekkurnaz G, Falk J Et al. FHL2 anchors mitochondria to actin and adapts mitochondrial dynamics to glucose supply *The Journal of cell biology* 2021-10-04 [PMID: 34342639] (B/N)

Cheramangalam RN, Anand T, Pandey P et al. Bendless is essential for PINK1-Park mediated Mitofusin degradation under mitochondrial stress caused by loss of LRPPRC *PLoS genetics* 2023-04-01 [PMID: 37098042] (WB, *Drosophila*)

Jagadeeshaprasad MG, Gautam L, Bewley MC et al. Disulfide bond and crosslinking analyses reveal inter-domain interactions that contribute to the rigidity of placental malaria VAR2CSA structure and formation of CSA binding channel *International journal of biological macromolecules* 2022-12-05 [PMID: 36470436] (ELISA)

Edwards-Hicks J, Su H, Mangolini M et al. MYC sensitises cells to apoptosis by driving energetic demand *Nature communications* 2022-08-09 [PMID: 35945217] (WB, Human)

Shen M, Wei Y, Kim H Et al. Small-molecule inhibitors that disrupt the MTDH-SND1 complex suppress breast cancer progression and metastasis *Nat Cancer* 2022-02-05 [PMID: 35121987]

Wang F, Gao Y, Xue S et al. SCARB2 Drives Hepatic Carcinoma Initiation by Supporting Cancer Stem Cell Traits and Enhancing MYC Transcriptional Activity *Research Square* 2022-02-17 (WB)

Harbauer AB, Hees JT, Wanderoy S et al. Neuronal mitochondria transport Pink1 mRNA via synaptojanin 2 to support local mitophagy *Neuron* 2022-02-19 [PMID: 35216662] (IP, Human)

Kumagai S, Koyama S, Itahashi K Et al. Lactic acid promotes PD-1 expression in regulatory T cells in highly glycolytic tumor microenvironments *Cancer Cell* 2022-01-29 [PMID: 35090594]

### Details:

Citation using the PE version of this antibody.

Li K, Wang F, Yang ZN et al. TRIB3 promotes MYC-associated lymphoma development through suppression of UBE3B-mediated MYC degradation *Nature communications* 2020-12-09 [PMID: 33298911] (WB, PLA, Mouse)

More publications at <http://www.novusbio.com/NB600-302>



## Procedures

### Serum protocol for c-Myc Antibody (NB600-302)

#### Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 25 ug of total protein per lane.
  2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
  3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
  4. Rinse the blot in TBS for approximately 5 minutes.
  5. Block the membrane using 5% NFD<sub>M</sub> + 1% BSA in TBS + Tween, 1 hour at RT.
  6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
  7. Dilute the mouse anti-c-myc primary antibody (NB600-302) in blocking buffer and incubate 1 hour at room temperature.
  8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
  9. Apply the diluted mouset-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
  10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
  11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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### **Products Related to NB600-302**

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NB800-PC2	Jurkat Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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