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.

Reviews: 4 Publications: 46

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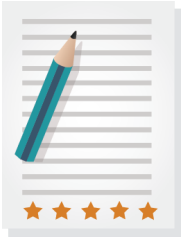
Updated 10/23/2024 v.20.1



NB600-302

c-Myc Antibody (9E10) - BSA Free

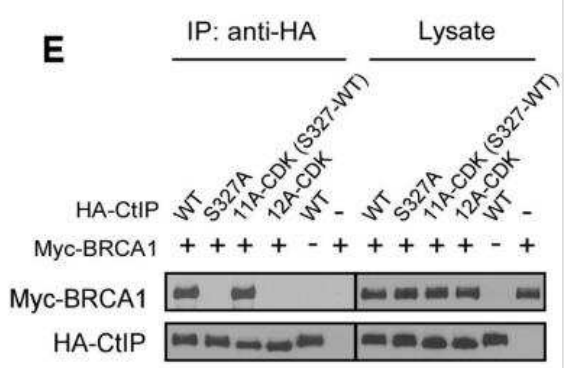
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	9E10
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	48.8 kDa

Product Description	
Host	Mouse
Gene ID	4609
Gene Symbol	MYC
Species	Human, Mouse, Bovine, Drosophila
Specificity/Sensitivity	Specific for the c-myc protein in random coil configuration, not as a helix. 9E10 does not react with V-myc.
Immunogen	A synthetic peptide corresponding to amino acids 408-439 (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA) of human c-Myc Antibody (9E10). [UniProt# P01106]

Product Application Details	
Applications	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)
Recommended Dilutions	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)
Application Notes	See Simple Western Antibody Database for Simple Western validation: tested in Jurkat lysate (0.5 mg/ml); antibody dilution of 1:200; separated by size

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) 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).
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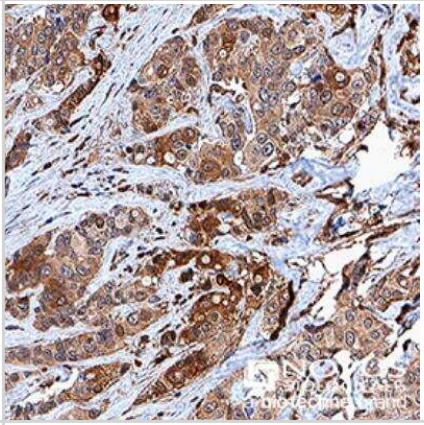
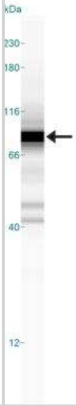
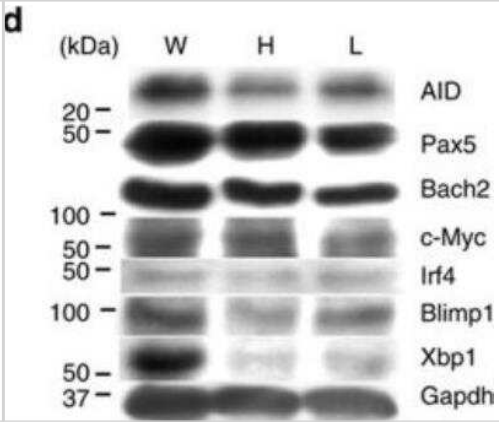


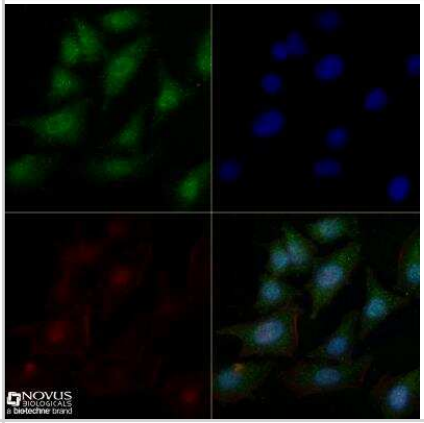
Simple Western: c-Myc Antibody (9E10) [NB600-302] - Simple Western lane view shows a specific band for c-Myc in 0.5 mg/ml of Jurkat lysate. This experiment as performed under reducing conditions using the 12-230 kDa separation system.



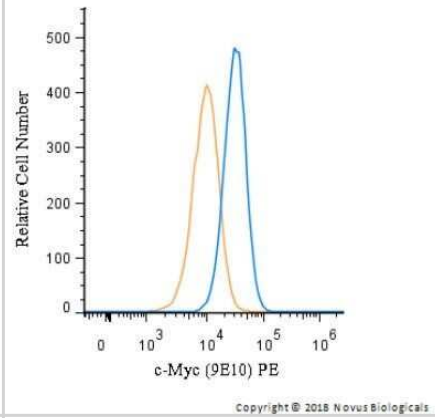
Western Blot: c-Myc Antibody (9E10) - BSA Free [NB600-302] - Western blotting analysis of unsorted (W) and sorted ROSl degrees w(L) and ROShigh(H) cells. Data shown are representative of at least two independent experiments.DyLight 650 conjugated version of this antibody used (NB600-302C). Image collected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



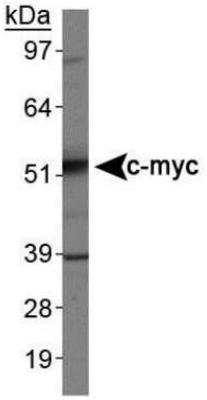
Immunocytochemistry/Immunofluorescence: c-Myc Antibody (9E10) [NB600-302] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-c-Myc (9E10) at 10 ug/ml overnight at 4C and detected with an anti-mouse 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.



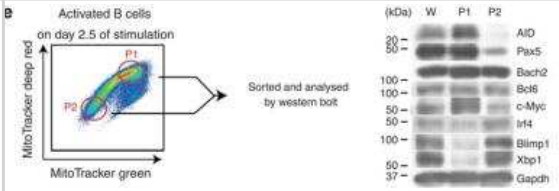
Flow (Intracellular): c-Myc Antibody (9E10) [NB600-302] - An intracellular stain was performed on U-937 cells with c-Myc Antibody (9E10) NB600-302PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody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

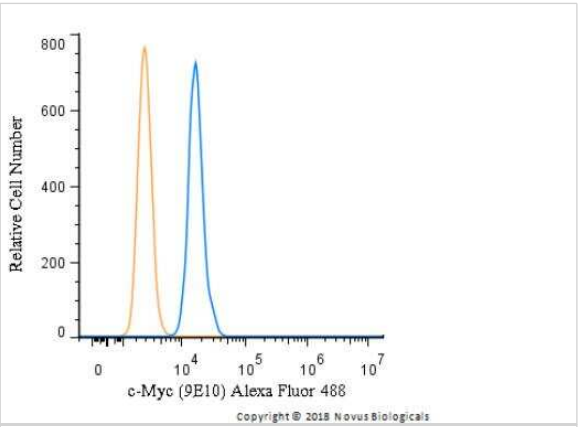
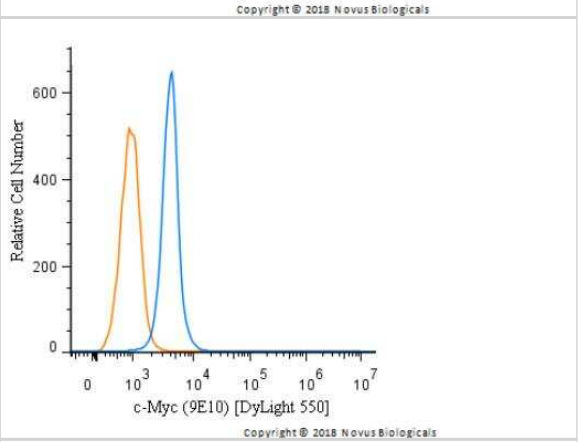
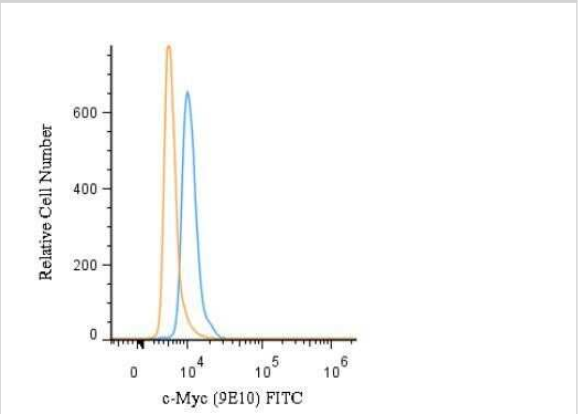
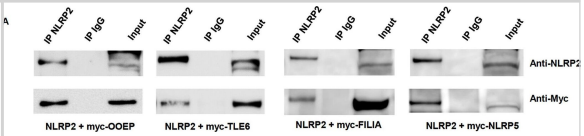


Western Blot: c-Myc Antibody (9E10) [NB600-302] - Analysis of c-myc in Jurkat cell lysates using NB600-302.



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) 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.	
Western Blot: c-Myc Antibody (9E10) - BSA Free [NB600-302] - NLRP2 interacts with SCMC components TLE6, OOEP, FILIA & NLRP5.(A) NLRP2 was overexpressed with myc-tagged OOEP, TLE6, NLRP5 & FILIA in HEK293T cells for 48 hours, immunoprecipitated with anti-NLRP2 or IgG as negative control & immunoblotted with anti-myc. Top panel shows specificity of anti-NLRP2 IP & bottom panel shows that NLRP2 binds to OOEP, TLE6, FILIA & NLRP5. Uncropped, full length western blots have been provided in Supplementary Figure 5. (B) Whole-mount immunofluorescence co-staining with anti-NLRP2 (green) & DAPI (blue) for nuclear staining on Nlrp2+/+ oocytes & embryos at 2-, 4-,16-cell & morula stages revealed a predominantly SCMC-like localization for NLRP2. Scale bars represent 200 µm. (C) Co-staining with anti-TLE6 (green) & DAPI (blue) of paraffin-embedded oocyte sections reveals a typical cortical stain of TLE6 in oocytes of Nlrp2+/+ dams but a more intense & diffuse stain in oocytes of Nlrp2tm1a/tm1a dams. Scale bars represent 10 µm. Image collected & cropped by CiteAb from the following publication (https://www.nature.com/articles/srep44667), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Arpit Dheeraj, Fernando Jose Garcia Marques, Dhanir Tailor, Abel Bermudez, Angel Resendez, Mallesh Pandrala, Benedikt Grau, Praveen Kumar, Carrsyn B. Haley, Alexander Honkala, Praveen Kujur, Stefanie S. Jeffrey, Sharon Pitteri, Sanjay V. Malhotra Inhibition of protein translational machinery in triple-negative breast cancer as a promising therapeutic strategy Cell Reports Medicine 2024-05-09 [PMID: 38729158]

Yang Y, Lu H, Chen C et al. HIF-1 Interacts with TRIM28 and DNA-PK to release paused RNA polymerase II and activate target gene transcription in response to hypoxia Nature communications 2022-01-14 [PMID: 35031618]

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] (Western Blot, Block/Neutralize)

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] (Western Blot)

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)

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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 dH2O 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% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O 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 dH2O 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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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)

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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