Product Datasheet

c-Myc Antibody (9E10)
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)

### Product Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>9E10</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1 Kappa</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
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</tbody>
</table>

### Product Description

- **Host**: Mouse
- **Gene ID**: 4609
- **Gene Symbol**: MYC
- **Species**: Human, Mouse, Drosophila
- **Reactivity Notes**: Human, mouse and 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. [UniProt# P01106]

### Product Application Details

- **Applications**: Western Blot, Simple Western, Chromatin Immunoprecipitation, ELISA, Flow Cytometry, Flow (Intracellular), Immunoblotting, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
- **Application Notes**: 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. Use in immunoblotting reported in scientific literature (PMID: 23750001).

In Simple Western only 10 - 15 µL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.
Western Blot: c-Myc Antibody (9E10) [NB600-302] - Analysis of c-myc in Jurkat cell lysates using NB600-302.

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.

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 Cytometry: c-Myc Antibody (9E10) [NB600-302] - An intracellular stain was performed on K562 cells with c-Myc (9E10) antibody NB600-302PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabliszed 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 Phycoerythrin.
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 µg/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

Flow Cytometry: c-Myc Antibody (9E10) [NB600-302] - Gray: WT B cell control. Blue: EuMyc un-transformed B cells. Red: EuMyc lymphoma. This image was submitted via customer review. Image from the FITC version of this antibody.

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 µg/mL for 30 minutes at room temperature. Both antibodies were conjugated to DyLight 550.

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.
<table>
<thead>
<tr>
<th>Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wu J, Fan W, Ma L, Geng X. miR-708-5p promotes fibroblast-like synoviocytes' cell apoptosis and ameliorates rheumatoid arthritis by the inhibition of Wnt3a/B-catenin pathway. Neuron Oct 10 2018 12:00AM [PMID: 30349197] (WB)</td>
</tr>
</tbody>
</table>

**Details:**
- This reference used the HRP version of NB600-302.

| Hsieh YT, Chou MM, Chen HC, Tseng JJ. IMP1 promotes choriocarcinoma cell migration and invasion through the novel effectors RSK2 and PPME1. Gynecol Oncol. 2013 Oct [PMID: 23911878] |

**Details:**
- Using the DyLight 650 conjugated version of NB600-302, catalog number NB600-302C.


**Details:**
- c-Myc antibody used for Western blot on human cell lines from MG63, HT29, T24 and T-47 cells that were treated with different concentrations of GG peptide (Fig 4).
## Procedures

### Protocol specific 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.
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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