Product Datasheet

c-Myc Antibody
NB600-336SS

Unit Size: 0.025 ml

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

Reviews: 1 Publications: 12

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NB600-336SS

c-Myc Antibody

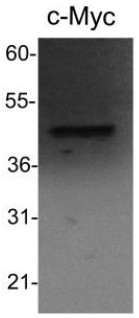
Product Information	
Unit Size	0.025 ml
Concentration	1.37 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Purity	Immunogen affinity purified
Buffer	Tris-glycine, 150 mM NaCl

Product Description	
Host	Rabbit
Gene ID	4609
Gene Symbol	MYC
Species	Human, Mouse
Species Reactivity	Non-species specific when used to detect the c-Myc tag. When used to detect the c-Myc protein this antibody reacts with human and mouse.
Immunogen	A synthetic peptide made to the human c-Myc protein (between residues 400-450) [UniProt P01106]

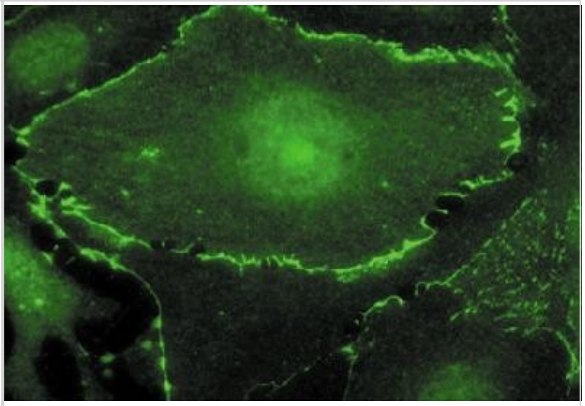
Product Application Details	
Applications	Western Blot, Simple Western, Chromatin Immunoprecipitation, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	ELISA 1:1000, Immunocytochemistry/Immunofluorescence 1:50, Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100, Immunoprecipitation 1:1000, Western Blot 1:1000, Chromatin Immunoprecipitation, Simple Western 1:500
Application Notes	This c-Myc antibody is useful for ELISA, Western Blot, Immunocytochemistry/Immunofluorescence, Western Blot, Immunoprecipitation, and Immunohistochemistry-paraffin embedded sections. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.In Simple Western only 10-15 uL of the recommended dilution is used per data point.

Images

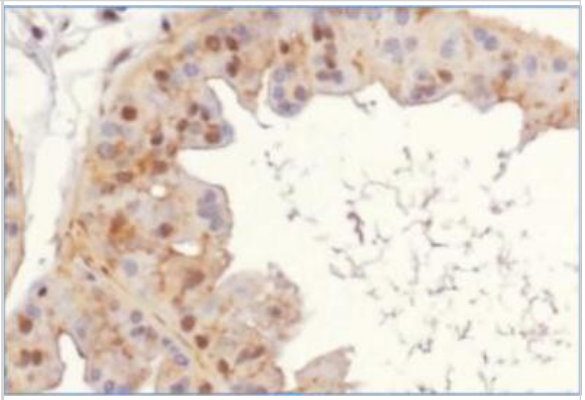
Western Blot: c-Myc Antibody [NB600-336] - c-Myc in MOLT-4 cells. Image from verified customer review.



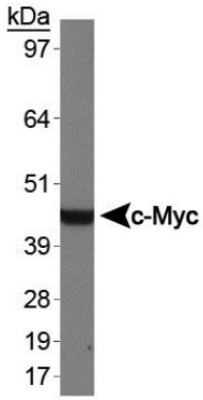
Immunocytochemistry/Immunofluorescence: c-Myc Antibody [NB600-336] - Detection of c-myc Tagged Plakoglobin by Immunofluorescence. Samples: Human microvascular endothelial cells expressing c-myc tagged plakoglobin following transient transfection.



Immunohistochemistry: c-Myc Antibody [NB600-336] - Analysis of c-Myc in mouse prostate using DAB with hematoxylin counterstain.



Western Blot: c-Myc Antibody [NB600-336] - Analysis of c-Myc on Jurkat whole cell extract using NB600-336.



Simple Western: c-Myc Antibody [NB600-336] - Simple Western lane view shows a specific band for c-Myc in 0.05 mg/ml of Jurkat lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Publications

Naffin-Olivos JL, Georgieva M, Goldfarb N et al. Mycobacterium tuberculosis Hip1 Modulates Macrophage Responses through Proteolysis of GroEL2. PLoS Pathog. 2014 May 01 [PMID: 24830429] (WB)

Tang C, Lin S, Hsu W et al. The human microcephaly protein STIL interacts with CPAP and is required for procentriole formation. EMBO J. 2011 [PMID: 22020124]

Lin YN, Wu CT, Lin YC et al. CEP120 interacts with CPAP and positively regulates centriole elongation. J Cell Biol 2013 Jul 22 [PMID: 23857771] (ICC/IF)

Lin YC, Chang CW, Hsu WB et al. Human microcephaly protein CEP135 binds to hSAS-6 and CPAP, and is required for centriole assembly EMBO J 2013 Mar 19 [PMID: 23511974] (IP, Human)

Tomalka AG, Stopford CM, Lee PC, Rietsch A. A translocator-specific export signal establishes the translocator-effector secretion hierarchy that is important for type III secretion system function Mol Microbiol 2012 Dec [PMID: 23121689] (WB)

Tanaka A, Tanizawa H, Sriswasdi S, et al. Epigenetic Regulation of Condensin-Mediated Genome Organization during the Cell Cycle and upon DNA Damage through Histone H3 Lysine 56 Acetylation Mol Cell 2012 Oct 17 [PMID: 23084836] (ChIP)

Fontaine SN, Bauer SP, Lin X et al. Replacement of charged and polar residues in the coiled-coiled interface of huntingtin-interacting protein 1 (HIP1) causes aggregation and cell death FEBS Lett 2012 Jul 23 [PMID: 22835334] (WB, Human)

Tang CJ, Fu RH, Wu KS et al. CPAP is a cell-cycle regulated protein that controls centriole length. Nat Cell Biol;11 (7):825-31. 2009 Jul. [PMID: 19503075] (IP, WB, Human)

Sun Y et al. Rab6 regulates both ZW10/RINT-1 and conserved oligomeric Golgi complex-dependent Golgi trafficking and homeostasis. Mol Biol Cell;18(10):4129-42. 2007 Oct. [PMID: 17699596]

Zheng Q, Su H, Ranek MJ, Wang X. Autophagy and p62 in Cardiac Proteinopathy. Circ Res. 2011 Jun 9. [PMID: 21659648] (ICC/IF, Mouse)

Wei JR, Krishnamoorthy V, Murphy K et al. Depletion of antibiotic targets has widely varying effects on growth. Proc Natl Acad Sci U S A;108(10):4176-81. 2011 Mar 8. [PMID: 21368134]

Park YK, Park H. Differentiated embryo chondrocyte 1 (DEC1) represses PPAR?2 gene through interacting with CCAAT/enhancer binding protein ? (C/EBP?). Mol Cells. 2012 May 18. [PMID: 22610404] (WB, ICC/IF, Mouse)

Procedures

Protocol specific for c-Myc antibody (NB600-336)
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted 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 three 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.
Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room

temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,0000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.