

# Product Datasheet

## c-Myc Antibody - BSA Free

### NB600-335

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NB600-335**

c-Myc Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	48.8 kDa

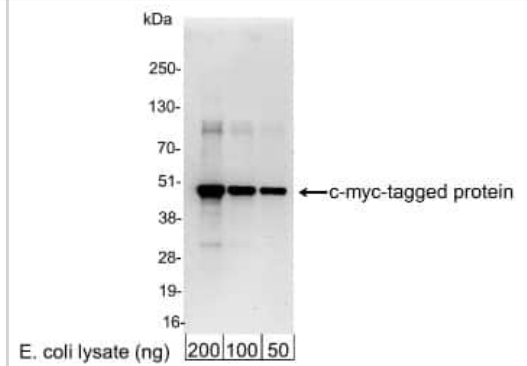
Product Description	
Description	Novus Biologicals Goat c-Myc Antibody - BSA Free (NB600-335) is a polyclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. Anti-c-Myc Antibody: Cited in 56 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	4609
Gene Symbol	MYC
Species	Non-species specific
Immunogen	Goats were immunized with a synthetic peptide representing amino acid residues 410-419 (EQKLISEEDL) of human c-Myc Antibody conjugated to KLH. Antibody was isolated by affinity chromatography using the peptide immobilized on solid support.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000 - 1:30000, ELISA Coating: 1:100-1:500; Primary: 1:1000-1:30000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100 - 1:400, Immunoprecipitation 1 - 4 ug/mg lysate, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen 1:100 - 1:400
Application Notes	IHC-F reactivity reported in scientific literature (PMID: 22411008). ICC/IF reactivity reported in scientific literature (PMID: 28368777). Use in IHC reported in scientific literature (PMID: 30203304). Use in IHC-P reported in scientific literature (PMID: 32159512).

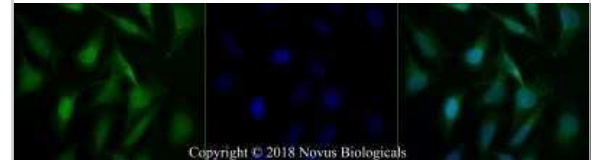


## Images

Western Blot: c-Myc Antibody [NB600-335] - Detection of c-myc-tagged Protein by Western Blot. Samples: 200, 100, or 50 ng of E. coli whole cell lysate expressing a multi-tag fusion protein. Antibodies: Affinity purified, goat anti-c-myc antibody NB600-335 at 0.04 ug/ml (1:25,000). Detection: Chemiluminescence with an exposure time of 30 seconds.



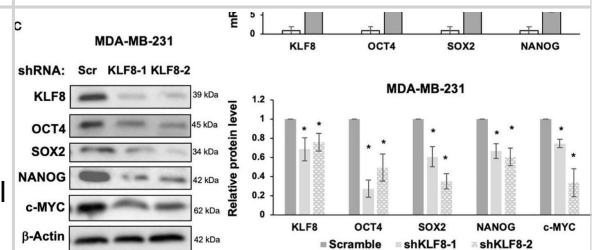
Immunocytochemistry/Immunofluorescence: c-Myc Antibody [NB600-335] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton X-100. The cells were incubated with anti-c-Myc conjugated to Alexa Fluor 488 [NB600-335AF488] at 20 ug/mL for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image using the Alexa Fluor 488 format of this antibody.



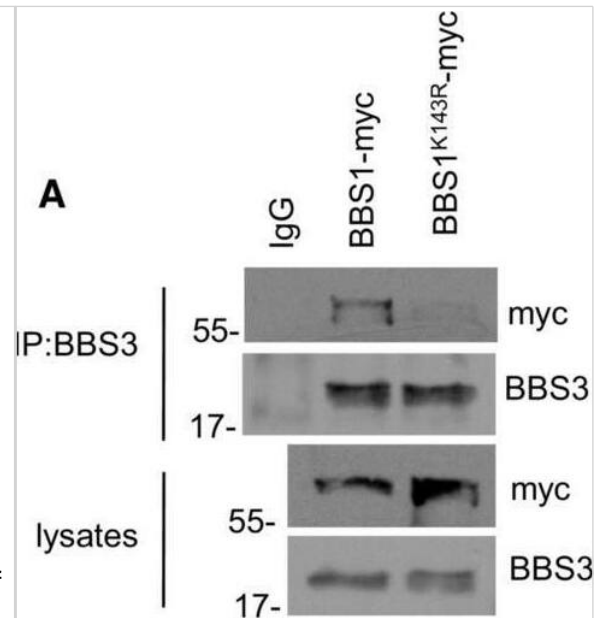
Western Blot: c-Myc Antibody [NB600-335] - Analysis using the HRP conjugate of NB600-335. Detection of 200, 100, or 50 ng of E. coli whole cell lysate expressing a multi-tag fusion protein. Antibody used at 0.4 ug/mL (1:25,000).



KLF8 regulates expression of stem cell markers in breast cancer cells. (A) Lysates from MDA-MB-231 cells stably overexpressing control or KLF8 were collected for immunoblot analysis of CSCs markers using indicated antibodies (left), and quantified graph of relative level of CSCs detected by immunoblot from MDA-MB-231 cells control or with KLF8 overexpression (right). (B) Quantified graph showing relative mRNA level of CSCs markers as detected by qRT-PCR using probes against genes in MDA-MB-231 cells stably overexpressing control or KLF8. (C) Lysates from MDA-MB-231 cells stably expressing control or KLF8 shRNA were collected for immunoblot analysis of CSCs markers using indicated antibodies (left), and quantified graph of relative level of CSCs levels (right). (D) Quantified graph showing relative mRNA level of CSCs markers as detected by qRT-PCR using probes against indicated targets in MDA-MB-231 cells stably expressing control or KLF8 shRNA. Student t test reported as mean +/- SEM, \*p<0.05. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37152043>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Dynamic modeling of hBBSome and Ub-hBBSome complex  
 A Co-immunoprecipitation assay of BBS1 or BBS1K143R and BBS3 from lysates of HEK293 transiently expressing the indicated transgenes. B Cumulative data of the experiments shown in (A). The data are expressed as mean  $\pm$  SD of three independent experiments. Student's t test,  $***P < 0.001$ . C Full atomistic description of the homology model of the octameric complex of the BBSome human sequence (hBBSome) in the Arl6GTP-bound (open) conformation, with the monoubiquitylation at K143 of hBBS14 $\alpha$  (Ub-hBBSome). D Focus on the full atomistic model of hBBSome core complex components (BBS1, BBS4, BBS8, BBS9, and BBS18). E Top view of the interaction details between BBS18  $\alpha$ -helix and the BBS18 U-bolt domains with the BBS8TPR and the superhelix of BBS4TPR, respectively. F Top view of the interaction details between BBS18  $\alpha$ -helix with the BBS1GAE domain and the superhelix of BBS4TPR. G Surface representation of the CG-MD model of the Ub-hBBSome, representing the starting point of the CG-MD simulation. Residues involved in the Arl6GTP-bound binding mode are highlighted in dark green. H, I Surface representation of the last CG-MD frame of the wt-hBBSome and the Ub-hBBSome, respectively showing the progressive closure of Arl6-binding site located between BBS1 $\beta$ prop and BBS7 $\beta$ prop. Residues involved in the Arl6GTP-bound binding mode are highlighted in red and yellow, respectively. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36744302>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Le Minh G, Esquea EM, Dhameliya TT et al. Kruppel-like factor 8 regulates triple negative breast cancer stem cell-like activity *Frontiers in Oncology* 2023-04-19 [PMID: 37152043]

Wei Q, Liu Z, Zhu J et al. The Ubiquitin E3 Ligase FBXO33 Suppresses Stem Cell-Like Properties and Metastasis in Non-Small-Cell Lung Cancer by Promoting Ubiquitination and Degradation of Myc Front Biosci (Landmark Ed) 2024-08-29 [PMID: 39206900]

Ben, J;Moududee, S;Ge, D;Zhou, P;Wang, A;Liu, Y;You, Z; SCFFBXW11 Complex Targets Interleukin-17 Receptor A for Ubiquitin-Proteasome-Mediated Degradation *Biomedicines* 2024-03-28 [PMID: 38672111]

Koppin A, Chase L. Lysine 473 Regulates the Progression of SLC7A11, the Cystine/Glutamate Exchanger, through the Secretory Pathway. *International journal of molecular sciences* 2024-10-16 [PMID: 39408599]

Li-Jyun Syu, Xinyi Zhao, Yaqing Zhang, Marina Grachtchouk, Elise Demitrack, Alexandre Ermilov, Dawn M. Wilbert, Xinlei Zheng, Ashley Kaatz, Joel K. Greenson, Deborah L. Gumucio, Juanita L. Merchant, Marina Pasca di Magliano, Linda C. Samuelson, Andrzej A. Dlugosz Invasive mouse gastric adenocarcinomas arising from Lgr5+ stem cells are dependent on crosstalk between the Hedgehog/GLI2 and mTOR pathways *Oncotarget* 2016-03-01 [PMID: 26859571]

Gurdita A Investigating the Mechanisms That Regulate Rod Photoreceptor Positioning and Connectivity in the Developing Murine Retina Thesis 2023-01-01

Zhu J, Hasanbegovi? H, Liu LD et al. Activity map of a cortico-cerebellar loop underlying motor planning *Nature neuroscience* 2023-11-01 [PMID: 37814026] (IHC, Mouse)

Sattiraju A, Kang S, Giotti B et al. Hypoxic niches attract and sequester tumor-associated macrophages and cytotoxic T cells and reprogram them for immunosuppression *Immunity* 2023-07-07 [PMID: 37451265]

Chiuso F, Delle Donne R, Giamundo G et al. Ubiquitylation of BBSome is required for ciliary assembly and signaling *EMBO reports* 2023-02-06 [PMID: 36744302] (ICC/IF, IP)

Upchurch CM, Yeudall S, Pavelec CM Et al. Targeting oxidized phospholipids by AAV-based gene therapy in mice with established hepatic steatosis prevents progression to fibrosis *Sci Adv* 2022-07-20 [PMID: 35857497] (WB, Mouse)

### Details:

Citation using the HRP version of this antibody.

Stsiapanava A, Xu C, Brunati M et al. Cryo-EM Structure of Native Human Uromodulin, a Zona Pellucida Module *Polymer EMBO J* 2020-11-16 [PMID: 33196145]

Kar S, Sen S, Maji S et al. Copper(II) import and reduction are dependent on His-Met clusters in the extracellular amino terminus of human Copper Transporter-1 *The Journal of biological chemistry* 2022-01-25 [PMID: 35090891]

More publications at <http://www.novusbio.com/NB600-335>



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## Products Related to NB600-335

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NBL1-13414	c-Myc Overexpression Lysate
NB600-336PEP	c-Myc Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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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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