Product Datasheet

Ki67/MKI67 Antibody
NBP2-19012

Unit Size: 0.1 mg

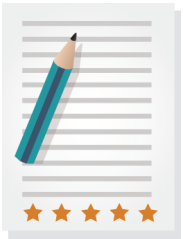
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 11

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-19012

Updated 9/9/2025 v.20.1



NBP2-19012

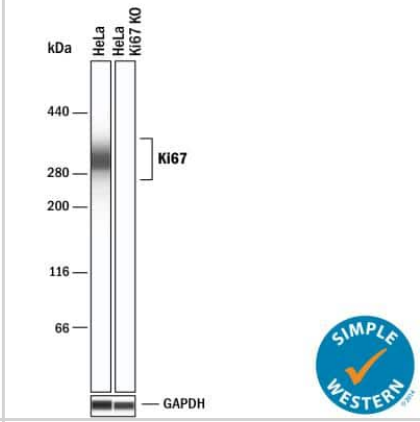
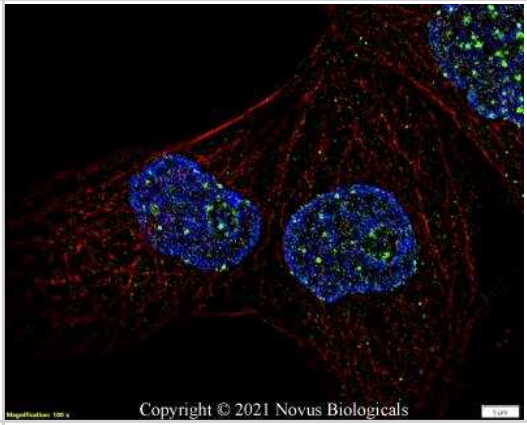
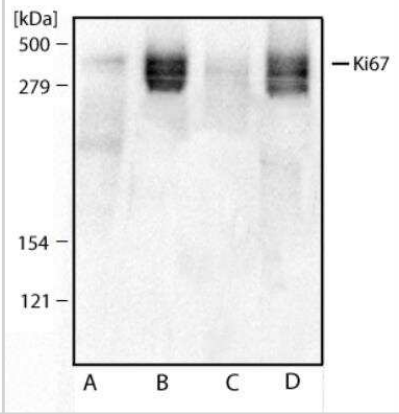
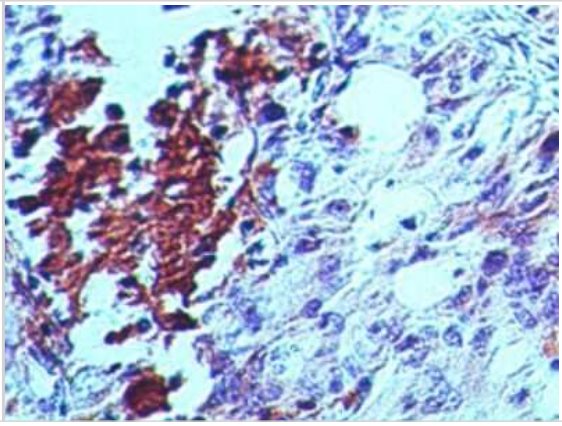
Ki67/MKI67 Antibody

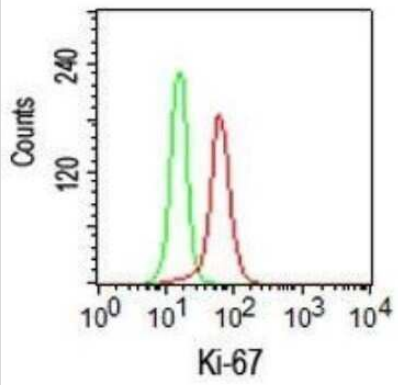
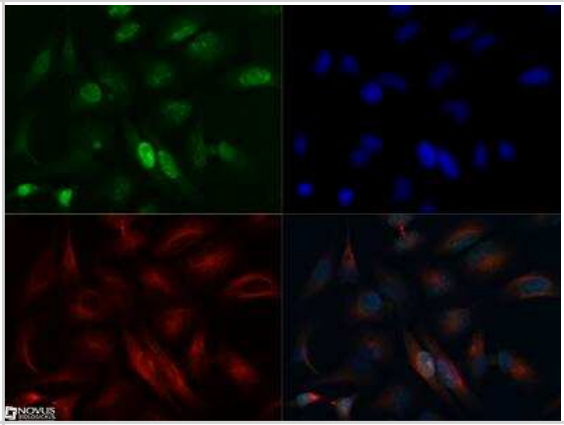
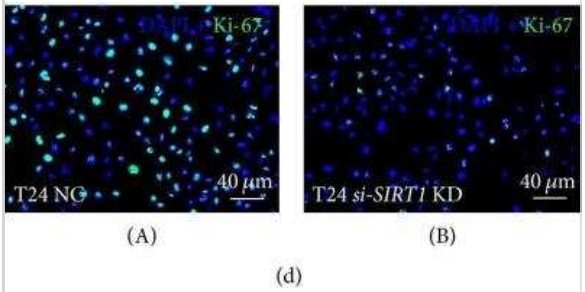
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 0.05% BSA
Target Molecular Weight	359 kDa

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit Ki67/MKI67 Antibody (NBP2-19012) is a polyclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-Ki67/MKI67 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4288
Gene Symbol	MKI67
Species	Human, Mouse
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: 85% in cow, guinea pig, and rhesus monkey; mole rat (80%); 75% in panda, horse, mouse, and rat; 70% homologouus in dog, and chinese hamster. Ki67/MKI67 Antibody reacted with Mouse reported in scientific literature (PMID: 27472062).
Marker	Proliferation Marker
Immunogen	The immunogen for this Ki67/MKI67 Antibody was made using amino acids 1200 -1250 from Human KI67/MKI67.

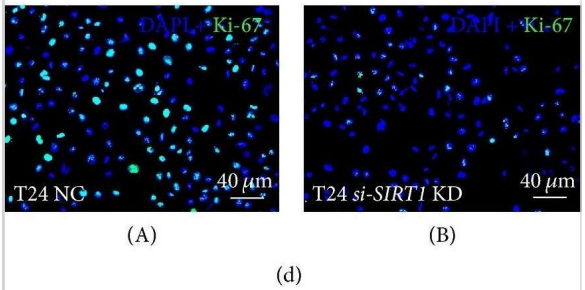
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 2 ug/mL, Flow Cytometry 0.2 ug/10^6 cells, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10, Immunohistochemistry-Paraffin 5 ug/mL, Knockout Validated, Knockdown Validated
Application Notes	Ki-67 appears to be limited to the activity phases of the cell-cycle.

Images

Simple Western: Ki67/MKI67 Antibody [NBP2-19012] - Detection of Ki67/MKI67 by Simple WesternTM. Simple Western lane view shows lysates of HeLa parental cell line and Ki67 knockout (KO) HeLa cell line. A specific band was detected for Ki67/MKI67 at approximately 312 kDa (as indicated) in the parental cell line, but is not detectable in the knockout HeLa cell line using 20 ug/mL of Rabbit Anti-Ki67/MKI67 Polyclonal Antibody (Catalog # NBP2-19012). GAPDH is shown as a loading control. This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.	
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody [NBP2-19012] - A431 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti- NBP2-19012 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:1000 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.	
Western Blot: Ki-67/MKI67 Antibody [NBP2-19012] - Analysis of A431 (A), HeLa (B), Ntera2 (C), and HEK293 (D) cell lysate using Ki67 antibody (NBP2-19012) at 2 ug/ml.	
Immunohistochemistry-Paraffin: Ki-67/MKI67 Antibody [NBP2-19012] - Human breast tumor stained with Ki-67 antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen.	

Flow Cytometry: Ki-67/MKI67 Antibody [NBP2-19012] - Expression in actively growing Jurkat cells: Cells were stained with 0.2 ug of Ki-67 antibody (red) and isotype control (green) and positively stained population was identified using PE conjugated goat anti-rabbit IgG secondary antibody. Cells fixed and permeabilized using ice cold 70% ethanol were used in this intracellular staining protocol.	
Immunocytochemistry/Immunofluorescence: Ki-67/MKI67 Antibody [NBP2-19012] - Ki67 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image objective 40x. An antibody dilution of 1:10 was used.	
Knockdown Validated: Ki67/MKI67 Antibody [NBP2-19012] - Cell proliferation of BCa cells treated by SIRT1-target-specific-siRNA (B) and negative-control-siRNA (A) was assayed by Ki-67 staining (green). Nuclei (blue) were stained by DAPI. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/29147649/) licensed under a CC-BY license.	

Downregulation of SIRT1 repressed BCa cell proliferation and induced cell cycle arrest. (a) Clone number in each well was counted and statistically analyzed in the clonogenic survival assay. □□p < 0.01. (b) Clonogenic survival assay revealed cell survival of BCa cells after treatment of SIRT1-target-specific-siRNA (SIRT1 KD) and control-siRNA (NC), cultured in 6-well plates for 14 days. (c) MTT assay was used to measure the viability of BCa cells treated by SIRT1-target-specific-siRNA (SIRT1 KD, line linking squares) and negative-control-siRNA (NC, line linking circles). All shown values were mean +/- SD of three measurements and repeated three times with similar results, □p < 0.05. (d) Cell proliferation of BCa cells treated by SIRT1-target-specific-siRNA (B) and negative-control-siRNA (A) was assayed by Ki-67 staining (green). Nuclei (blue) were stained by DAPI. (e) Statistical analysis of percentages (%) of BCa cell populations at different stages of cell cycles. All shown values were mean +/- SD of three measurements and repeated three times with similar results. □p < 0.05. (f) Western blot analysis of proteins involved in G0-G1 cell cycle regulation (CDK2, CDK4, and CDK6) in the BCa cells. β-Actin abundance was used as a control. (g) Flow cytometry analysis result for BCa cells treated with negative-control-siRNA (A) and SIRT1-target-specific-siRNA (B) for 48 h. The scale bar for (b) is 1 cm and for (d) is 40 μm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/29147649), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Deng Z, Shen D, Yu M et al. Pectolinarigenin inhibits bladder urothelial carcinoma cell proliferation by regulating DNA damage/autophagy pathways Cell Death Discovery 2023-07-01 [PMID: 37393350] (Immunohistochemistry, Mouse)

Song Chen, Qiang Zhou, Zicheng Guo, Yejinpeng Wang, Lu Wang, Xuefeng Liu, Mengxin Lu, Lingao Ju, Yu Xiao, Xinghuan Wang Inhibition of MELK produces potential anti□tumour effects in bladder cancer by inducing G1/S cell cycle arrest via the ATM/CHK2/p53 pathway Journal of Cellular and Molecular Medicine 2019-12-10 [PMID: 31821699]

Rui Cao, Gang Wang, Kaiyu Qian, Liang Chen, Guofeng Qian, Conghua Xie, Han C. Dan, Wei Jiang, Min Wu, Chin-Lee Wu, Yu Xiao, Xinghuan Wang Silencing of HJURP induces dysregulation of cell cycle and ROS metabolism in bladder cancer cells via PPARγ-SIRT1 feedback loop Journal of Cancer 2017-01-01 [PMID: 28819432]

Chen S, Wang Y, Xiong Y et al. Wild-type IDH1 inhibits the tumor growth through degrading HIF-alpha in renal cell ijbs.com 2021-01-01 [PMID: 33867843] (WB, Human)

Hu Q, Wang G et al. Knockdown of SIRT1 Suppresses Bladder Cancer Cell Proliferation and Migration and Induces Cell Cycle Arrest and Antioxidant Response through FOXO3a-Mediated Pathways. Biomed Res Int 2017-11-18 [PMID: 29147649] (ICC/IF, Human)

Chen L, Peng T, Luo Y et al. ACAT1 and Metabolism-Related Pathways Are Essential for the Progression of Clear Cell Renal Cell Carcinoma (ccRCC), as Determined by Co-expression Network Analysis Front Oncol 2019-10-09 [PMID: 31649873] (ICC/IF, Human)

Cheng S, Qian K, Wang Y, et al. PPAR-gamma inhibition regulates the cell cycle, proliferation and motility of bladder cancer cells J. Cell. Mol. Med. 2019-05-01 [PMID: 30912275] (ICC/IF, Human)

Chen L, Wang G, Luo Y et al. Downregulation of LAPTM5 suppresses cell proliferation and viability inducing cell cycle arrest at G0/G1 phase of bladder cancer cells. Int. J. Oncol. 2017-01-01 [PMID: 27922670]

Qian K, Wang G, Cao R et al. Capsaicin Suppresses Cell Proliferation, Induces Cell Cycle Arrest and ROS Production in Bladder Cancer Cells through FOXO3a-Mediated Pathways. Molecules 2016-10-21 [PMID: 27775662]

Zhou L, Yang K, Carpenter A et al. CD133-positive dermal papilla-derived Wnt ligands regulate postnatal hair growth. Biochem. J. 2016-10-01 [PMID: 27462123] (IF/IHC, Mouse)

Zhou L, Xu M, Yang Y et al. Activation of beta-Catenin Signaling in CD133-Positive Dermal Papilla Cells Drives Postnatal Hair Growth PLoS ONE 2016-07-30 [PMID: 27472062] (IF/IHC, Mouse)

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NBP2-24891	Rabbit IgG Isotype Control

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