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.

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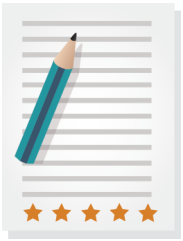
Updated 4/13/2025 v.20.1



NBP2-19012

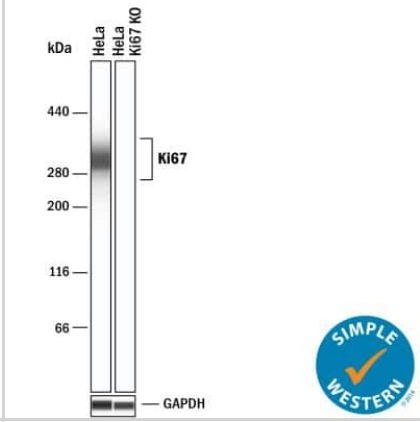
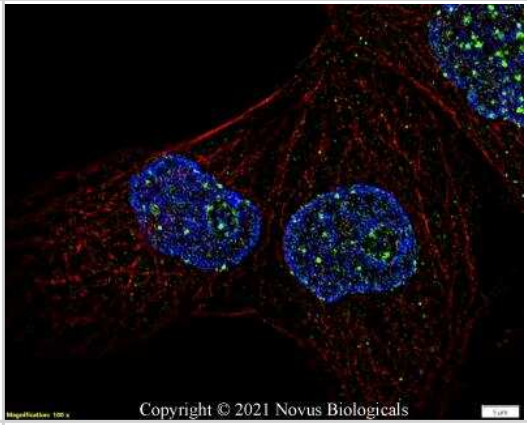
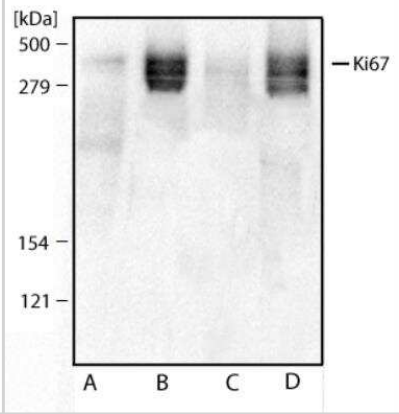
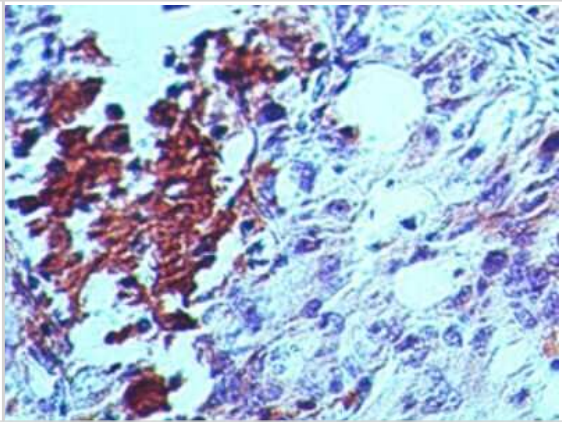
Ki67/MKI67 Antibody

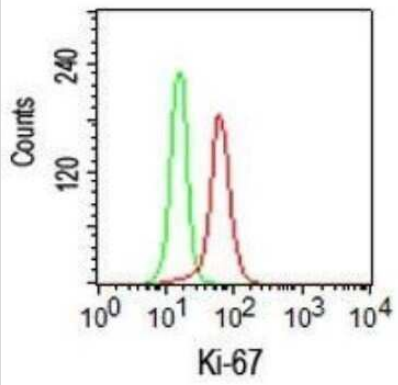
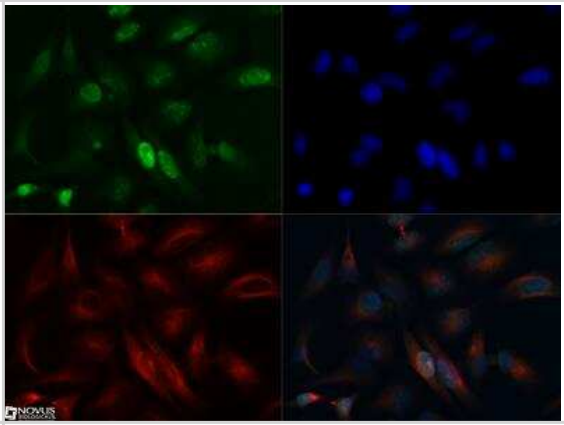
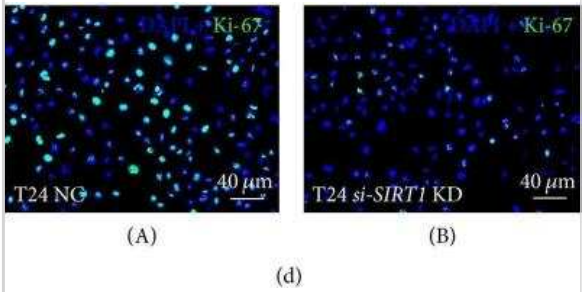
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 0.05% BSA
Target Molecular Weight	359 kDa

Product Description	
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, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, 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.	

Publications

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]

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]

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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Products Related to NBP2-19012

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB110-89719PEP	Ki67/MKI67 Antibody Blocking Peptide

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