

# Product Datasheet

## Ki67/MKI67 Antibody (8D5) - BSA Free NBP2-22112

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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**NBP2-22112**

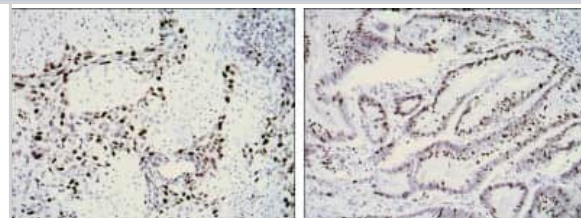
Ki67/MKI67 Antibody (8D5) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	8D5
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ammonium sulfate precipitation
Buffer	PBS
Target Molecular Weight	359 kDa
Product Description	
Host	Mouse
Gene ID	4288
Gene Symbol	MKI67
Species	Human, Mouse, Rabbit
Reactivity Notes	Use in Rabbit reported in scientific literature (PMID:33691202). Human reactivity reported in the scientific literature (PMID: 23777661). Rat reactivity reported in scientific literature (PMID: 23447644). Porcine reactivity reported in scientific literature (PMID: 27046485).
Marker	Proliferation Marker
Immunogen	The immunogen for this KI67/MKI67 Antibody (8D5) was made using a synthetic peptide from the internal region of Human KI67/MKI67 (amino acids: 1100-1113, 1222-1235 and 3 more spots); sequence: CEDLAGFKELFQTPG [Uniprot: P46013].
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA 1:10000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100. Use reported by customer review, Immunohistochemistry-Paraffin 1:200-1:1000, Immunohistochemistry-Frozen reported in scientific literature (PMID 33131911), Knockout Validated

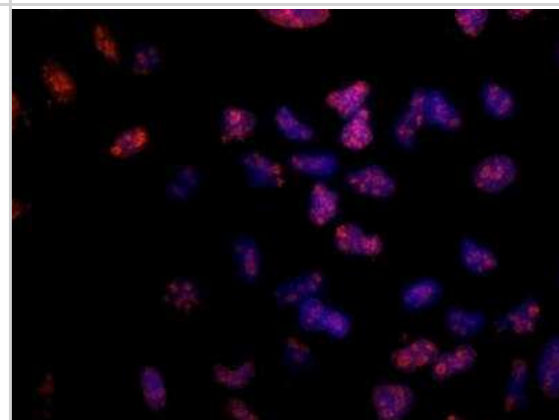


## Images

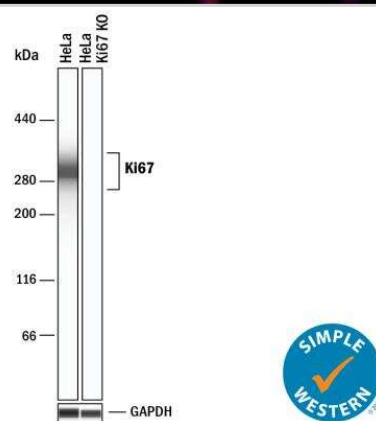
Immunohistochemistry-Paraffin: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Analysis of paraffin-embedded lung cancer (left) and rectal cancer (right) using Ki67 mouse mAb with DAB staining.



Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - A549 human alveolar adenocarcinoma cell line, fixation with PFA 4%, blocking (PBS, 1% BSA, 0.1% Tween), primary antibody: 1:100 in blocking buffer, O/N. Secondary antibody: AlexaFluor 594, 1 hour, RT. Counterstained with DAPI. Imaged with a fluorescence microscope. This image was submitted via customer review.



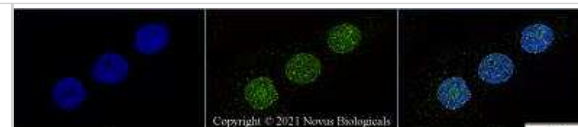
Simple Western: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Detection of Ki67/MKI67 by Simple Western™. Simple Western lane view shows lysates of HeLa parental cell line and Ki67 knockout (KO) HeLa cell line. A specific band was detected for Ki67/MKI67 at approximately 317 kDa (as indicated) in the parental cell line, but is not detectable in the knockout HeLa cell line using 1:100 of Mouse Anti-Ki67/MKI67 Monoclonal Antibody (Catalog # NBP2-22112). GAPDH is shown as a loading control. This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



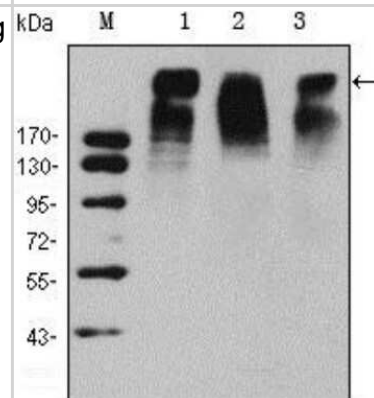
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti- NBP2-22112 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



**Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112]** - 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- NBP2-22112 at 2 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



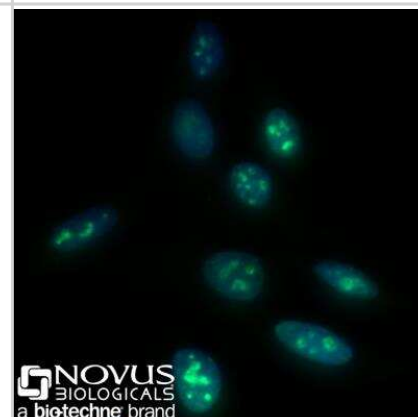
**Western Blot: Ki67/MKI67 Antibody (8D5) [NBP2-22112]** - Analysis using Ki67 mouse mAb against Hela (1), MCF-7 (2) and Raji (3) cell lysate.



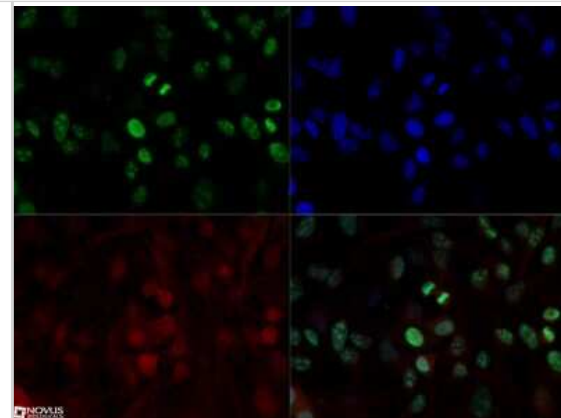
**Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112]** - U-251 MG cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-Ki67/MKI67 Antibody [8D5] conjugated to FITC (NBP2-22112F) at 5 ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



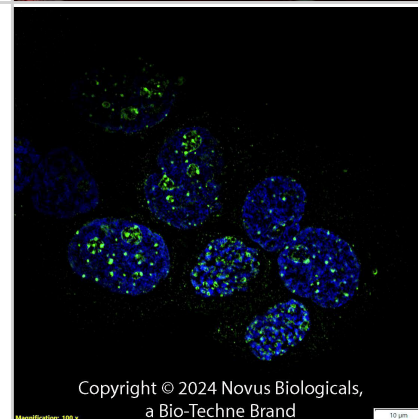
**Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112]** - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton X-100. The cells were incubated with anti-Ki-67 (8D5) conjugated to Alexa Fluor 488 [NBP2-22112AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



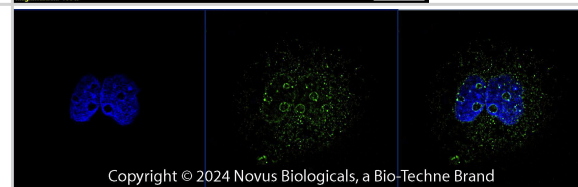
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody (8D5) [NBP2-22112] - Ki67 antibody was tested at 1:100 in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). Image objective 40x.



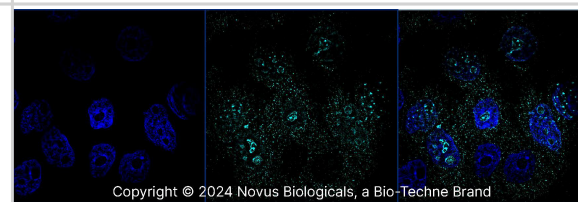
Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP2-22112AF488) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to FITC (Catalog # NBP2-22112F) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-22112AF647) (light blue) at 2 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Ki67/MKI67 (8D5) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-Ki67/MKI67 (8D5) Protein-G purified Monoclonal Antibody conjugated to DyLight 488 (Catalog # NBP2-22112G) (green) at 2 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



## Publications

Fu B, Lou Y, Lu X et Al. tRF-1:30-Gly-CCC-3 inhibits thyroid cancer via binding to PC and modulating metabolic reprogramming Life Sci Alliance 2023-12-11 [PMID: 38081642]

Zhang X, Qin Y, Chen X et Al. Clinical Value of Human Endogenous Retrovirus-H Long Terminal Repeat Associating 2 (HHLA2) in Small Cell Lung Cancer Technol Cancer Res Treat 2024-04-13 [PMID: 38613340]

Pissas G, Tziastoudi M, Divani M et Al. Malate dehydrogenase-2 inhibition shields renal tubular epithelial cells from anoxia-reoxygenation injury by reducing reactive oxygen species J Biochem Mol Toxicol 2024-09-17 [PMID: 39287333]

Jun Seob Lee, So Young Lee, Hee Seung Chin, Na Rae Kim, Ji Won Jung Microstructure of the corneal endothelial transition zone in different laboratory animals Molecular Vision 2024-01-01 [PMID: 38601017]

Meier Bürgisser G, Heuberger DM, Rieber J et al. Delineation of the healthy rabbit tongue by immunohistochemistry - A technical note Acta histochemica 2023-11-30 [PMID: 38039795] (IHC-Fr, IHC-P, Rabbit)

Celikten M, Sahin H, Senturk GE et al. The Effect of Platelet-Rich Fibrin, Platelet-Rich Plasma, and Concentrated Growth Factor in the Repair of Full Thickness Rotator Cuff Tears Journal of shoulder and elbow surgery 2023-10-26 [PMID: 37898418] (IHC-P, Rabbit)

Meier Bürgisser G, Heuberger DM, Giovanoli P et al. Delineation of the healthy rabbit tonsil by immunohistochemistry - A short communication Acta histochemica 2023-10-01 [PMID: 37804548] (Immunohistochemistry, Rabbit)

Hong Y, Chen B, Wang C et al. circPPP2R4 promotes colorectal cancer progression and reduces ROS production through the miR-646/FOXK1 axis Molecular carcinogenesis 2023-09-26 [PMID: 37750597]

Eleftheriadis T, Pissas G, Goulinopoulos S et al. Inhibition of Malate Dehydrogenase-2 Protects Renal Tubular Epithelial Cells from Anoxia-Reoxygenation-Induced Death or Senescence Biomolecules 2022-10-03 [PMID: 36291624]

Eleftheriadis T, Pissas G, Goulinopoulos S et al. Routes of Albumin Overload Toxicity in Renal Tubular Epithelial Cells International journal of molecular sciences 2023-06-01 [PMID: 37298591] (WB)

Amleh A, Chen HP, Watad L et al. Arginine depletion attenuates renal cystogenesis in tuberous sclerosis complex model Cell reports. Medicine 2023-06-20 [PMID: 37290438] (IHC-P, Mouse)

Liu X, Hogg GD, Zuo C et al. Context-dependent activation of STING-interferon signaling by CD11b agonists enhances anti-tumor immunity Cancer cell 2023-05-12 [PMID: 37236195]

More publications at <http://www.novusbio.com/NBP2-22112>





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### **Products Related to NBP2-22112**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB110-89719PEP	Ki67/MKI67 Antibody Blocking Peptide

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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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