

Product Datasheet

Ki-67/MKI67 Antibody NB110-90592SS

Unit Size: 0.025 ml

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

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NB110-90592SS

Ki-67/MKI67 Antibody

Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS

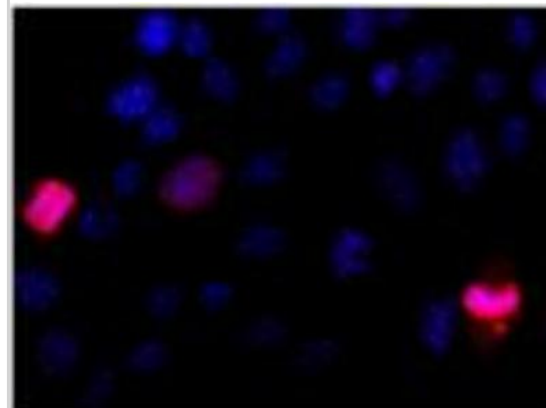
Product Description	
Host	Rabbit
Gene ID	4288
Gene Symbol	MKI67
Species	Human, Mouse
Reactivity Notes	Human and Mouse.
Marker	Proliferation Marker
Immunogen	Synthetic peptide made to an internal portion of the human Ki67 protein (within residues 1200-1300). [Swiss-Prot# P46013]

Product Application Details	
Applications	Chromatin Immunoprecipitation, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Chromatin Immunoprecipitation, Immunohistochemistry 1:3200, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:3200, Immunohistochemistry-Frozen
Application Notes	This Ki67 antibody is useful for Immunohistochemistry-paraffin embedded sections, Immunocytochemistry/immunofluorescence. Use in Immunohistochemistry-Frozen reported in scientific literature (PMID 25647012)

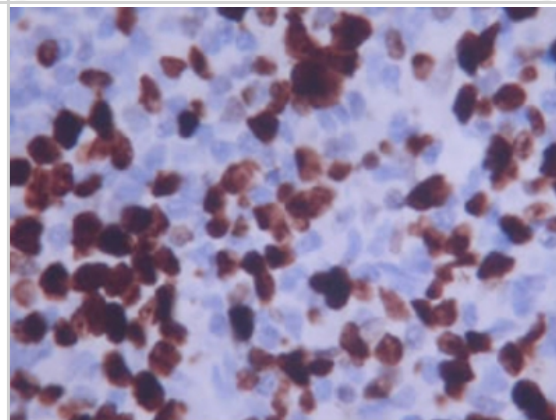


Images

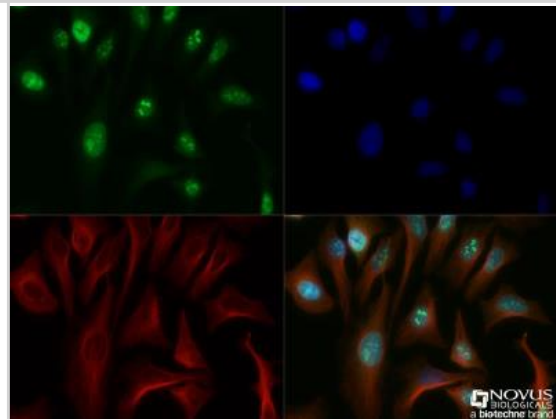
Immunocytochemistry/Immunofluorescence: Ki67 Antibody [NB110-90592] - IF analysis of Ki67 in mouse small intestinal epithelial cell line. Image courtesy of anonymous customer product review.



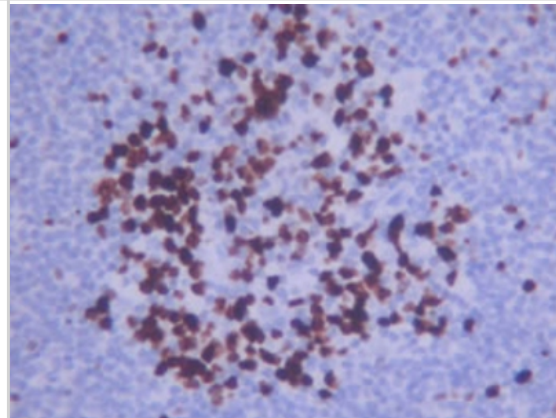
Immunohistochemistry: Ki67 Antibody [NB110-90592] - Detection of human lymph node using NB110-90592. (40X)



Chromatin Immunoprecipitation: Ki-67/MKI67 Antibody [NB110-90592] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-Ki-67/MKI67 (NB110-90592) at a 1:200 dilution overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunohistochemistry: Ki67 Antibody [NB110-90592] - Detection of human lymph node using NB110-90592. (20X)



Publications

Kato T, Lee D, Huang H et al. Personalized siRNA-nanoparticle Systemic Therapy using Metastatic Lymph Node Specimens Obtained with EBUS-TBNA in Lung Cancer. *Mol. Cancer Res.* 2017 Oct 09 [PMID: 28993508] (Human)

Ernsting MJ, Hoang B, Lohse I et al. Targeting of metastasis-promoting tumor-associated fibroblasts and modulation of pancreatic tumor-associated stroma with a carboxymethylcellulose-docetaxel nanoparticle. *J Control Release.* 2015 Mar 21 [PMID: 25804872] (IHC, Mouse)

Tan Q, Joshua AM, Saggar JK et al. Effect of pantoprazole to enhance activity of docetaxel against human tumour xenografts by inhibiting autophagy *Br. J. Cancer.* 2015 Mar 03 [PMID: 25647012] (IHC-Fr, Human)

Details:

Ki-67/MKI67 antibody used for IHC-Fr on PC3 xenograft cryosections obtained from mice that were subjected or not to 24 hours of treatments with pantoprazole/PTP, docetaxel/DOC or PTP+DOC (docetaxel-treatment after pretreatment with pantoprazole). Ki67 was used as a marker of cell proliferation and the latter was found to be reduced in animals treated with a combination of pantoprazole and docetaxel compared to the ones treated with either drugs alone (Figure 2D).

Cassol CA, Winer D, Liu W et al. Tyrosine kinase receptors as molecular targets in pheochromocytomas and paragangliomas. *Mod. Pathol.* 2014 Jan 03 [PMID: 24390213] (IHC-P, Human)

Details:

Ki67 antibody used for IHC-P on tissue microarray slides constructed from human pheochromocytomas and paragangliomas (including metastatic tissues).

Zhao JJ, Lin J, Zhu D et al. miR-30-5p Functions as a Tumor Suppressor and Novel Therapeutic Tool by Targeting the Oncogenic Wnt/betta-Catenin/BCL9 Pathway. *Cancer Res.* 3/15/2014 [PMID: 24599134] (IHC-P, Human)

Ciucurel E, Sefton MV. Using Del-1 to Tip the Angiogenic Balance in Endothelial Cells in Modular Constructs. *Tissue Eng Part A.* 2013 Oct 20 [PMID: 24138448] (IHC-P, Human)

Serra S, Zheng L, Hassan M et al. The FGFR4-G388R Single-Nucleotide Polymorphism Alters Pancreatic Neuroendocrine Tumor Progression and Response to mTOR Inhibition Therapy *Cancer Res* 2012 Nov 15 [PMID: 22986737] (IHC, Mouse)

Wei W, Liu W, Cassol C et al. The Breast Cancer Susceptibility Gene FGFR2 Serves as a Scaffold for Regulation of NF- κ B Signaling *Mol Cell Biol* 2012 Sep 17 [PMID: 22988296] (IHC, Mouse, Human)

Fung AS, Jonkman J, Tannock IF. Quantitative immunohistochemistry for evaluating the distribution of ki67 and other biomarkers in tumor sections and use of the method to study repopulation in xenografts after treatment with Paclitaxel. *Neoplasia*;14(4):324-34. 2012 Apr. [PMID: 22577347] (IHC, Mouse)



Procedures**Immunohistochemistry Protocol for Ki67 Antibody (NB110-90592)**

Immunohistochemistry

1. Slice fresh tissues in 3um sections
2. Formaldehyde fixation 50C for 1 hour
3. Dehydrate under 80%, 90%, 90%, 95%, 95%, 100% and 100% ethanol successively under 50C for 1 hour of each concentration
4. Xylene I 40C for 1 hour
5. Xylene II 40C for 1 hour
6. Paraffin I embedding 65 C for 1 hour
7. Paraffin II embedding 65 C for 1 hour
8. Paraffin III embedding 65 C for 1 hour
9. Deparaffinize and rehydrate sections as standard
10. Antigen retrieval using 10mM sodium citrate microwave for 20 minutes
11. Wash and PBS wash as standard
12. Add 100ul primary antibody diluted to 1:3200 separately and incubate at 4C overnight
13. Wash in PBS buffer for 3 times 5 minutes
14. Remove excess PBS buffer and incubate sections with biotinylated secondary antibody, incubate for 30 minutes at 30C
15. Wash in PBS buffer for 3 times 5 minutes
16. Remove excess PBS buffer and incubate sections with ABC at 30C for 30 minutes
17. Wash in PBS buffer for 3 times 5 minutes
18. Develop with DAB
19. Rinse slides in gently running tap water for 10 minutes





Novus Biologicals USA

8100 Southpark Way, A-8
Littleton, CO 80120
USA

Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Novus Biologicals Canada

461 North Service Road West, Unit B37
Oakville, ON L6M 2V5
Canada

Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada@novusbio.com

Novus Biologicals Europe

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

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