

Product Datasheet

Ki-67/MKI67 Antibody NB110-89719SS

Unit Size: 0.025 ml

Store at 4C. Do not freeze.

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NB110-89719SS

Ki-67/MKI67 Antibody

Product Information

Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Purity	Immunogen affinity purified
Buffer	TBS with 0.1% BSA.
Target Molecular Weight	359 kDa

Product Description

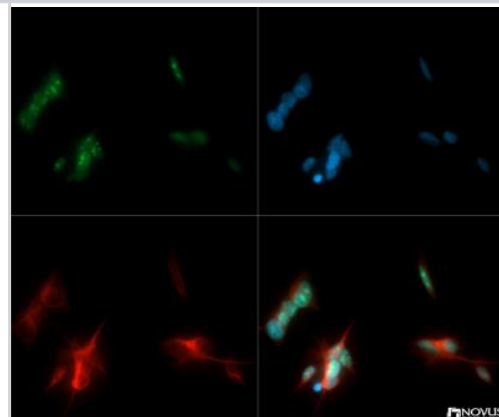
Host	Rabbit
Gene ID	4288
Gene Symbol	MKI67
Species	Human, Mouse
Species Reactivity	Human and mouse.
Marker	Proliferation Marker
Immunogen	Synthetic peptide made to an internal portion of the mouse Ki67 protein, within residues 1800-1850. [UniProt# P46013]

Product Application Details

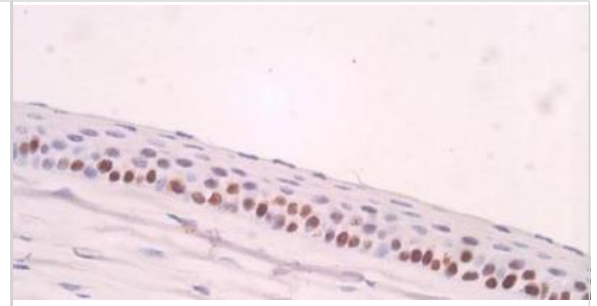
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry 1:100-1:500, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin 1:100-1:500, Western Blot
Application Notes	This Ki67 antibody is useful for Immunohistochemistry paraffin embedded sections and Immunocytochemistry/Immunofluorescence. Immunohistochemistry-Frozen and Western Blot were reported in scientific literature.

Images

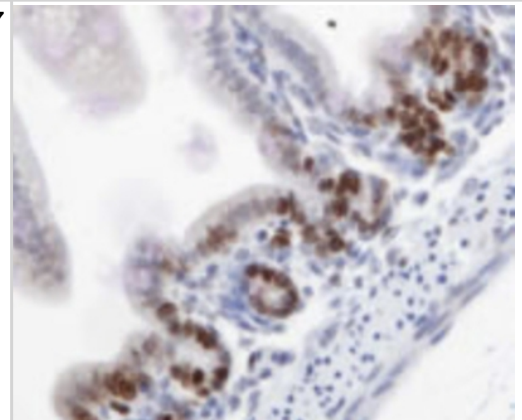
Immunocytochemistry/Immunofluorescence: Ki67 Antibody [NB110-89719] - Ki67 antibody was tested in SH-SY5Y cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



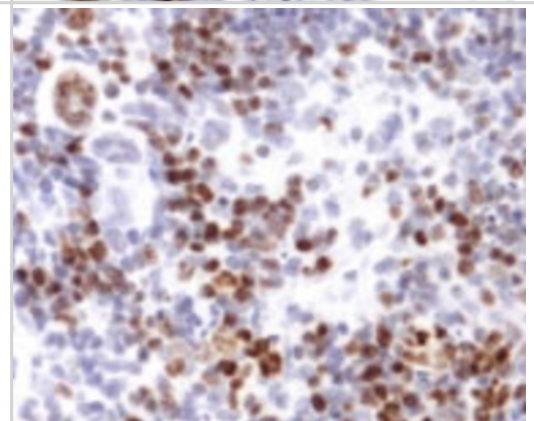
Immunohistochemistry-Paraffin: Ki67 Antibody [NB110-89719] - IHC analysis of Ki67 in mouse cornea. Image courtesy of product review by Bo-Yie Chen.



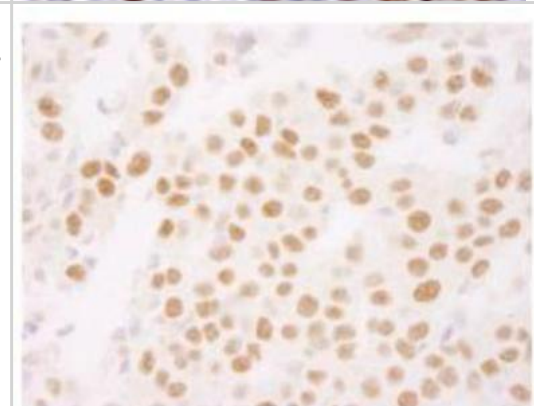
Immunohistochemistry: Ki67 Antibody [NB110-89719] - Detection of Ki67 in formalin-fixed paraffin embedded mouse intestine using NB110-89719.



Immunohistochemistry: Ki67 Antibody [NB110-89719] - Immunohistochemical analysis of mouse spleen.



Immunohistochemistry-Paraffin: Ki67 Antibody [NB110-89719] - FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-Ki-67 (NB110-89719) used at a dilution of 1:250.



Publications

Kato S, Hayashi S, Kitahara Y et al. Saireito (TJ-114), a Japanese Traditional Herbal Medicine, Reduces 5-Fluorouracil-Induced Intestinal Mucositis in Mice by Inhibiting Cytokine-Mediated Apoptosis in Intestinal Crypt Cells PLoS ONE. 2015 Jan 08 [PMID: 25565296] (IHC-P, Human)

Details:

Ki-67/MKI67 antibody used for IHC-P on murine jejunum tissue sections in experiments involving the modulatory effects of a Japanese Traditional Herbal Medicine called Saireito on 5-Fluorouracil-Induced Intestinal Mucositis in Mice. IHC-P Assay involved - 10% neutralized formalin fixation of tissues, paraffin embedding followed by 4um sectioning, antigen retrieval with HistoVT One solution/90C for 20 minutes in water bath, endogenous peroxidases blocked with 3%H2O2, primary detection with Vectastain Elite ABC rabbit IgG kit followed by counter-staining with hematoxylin (Figure 6).

Rodriguez M, Luo W, Weng J et al. PSGR promotes prostatic intraepithelial neoplasia and prostate cancer xenograft growth through NF-kB. Oncogenesis. 2014 Aug 12 [PMID: 25111863] (IHC-P, Mouse)

Ifkovits JL, Addis RC, Epstein JA. Inhibition of TGFB Signaling Increases Direct Conversion of Fibroblasts to Induced Cardiomyocytes. PLoS ONE 2014 Mar 3 [PMID: 24586958] (ICC/IF, Mouse)

Lin DP, Chang HH, Yang LC et al. Assessment of ultraviolet B-blocking effects of weekly disposable contact lenses on corneal surface in a Mouse model. Mol Vis 2013 May 29 [PMID: 23734085] (IHC-P, Mouse)

Jo M, Yun HM, Park KR et al. Lung tumor growth promoting function of peroxiredoxin 6. Free Radic Biol Med 2013 May 2 [PMID: 23643677] (WB, IHC-P, Mouse)

Mobley AS, Bryant AK, Richard MB et al. Age-dependent regional changes in the rostral migratory stream. Neurobiol Aging 2013 Feb 15 [PMID: 23419702] (IHC-Fr, ICC/IF, Mouse)



Procedures

Immunohistochemistry Protocol specific for Ki67 Antibody (NB110-89719)

Antigen Unmasking

Bring slides to a boil in 10 mM sodium citrate buffer pH 6.0 then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench top for 30 minutes.

Wash sections in dH₂O three times for 5 minutes each.

Wash section in wash buffer for 5 minutes.

Block each section with 100-400 ul blocking solution (1X PBST, 5% goat serum) for 1 hour at room temperature.

Remove blocking solution and add 100-400 ul primary antibody diluted in 1X PBST, 5% goat serum to each section.

Incubate overnight at 4C.

Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.

Add 100-400 ul biotinylated secondary antibody, diluted in 1X PBST, 5% goat serum. Incubate 30 minutes at room temperature.

Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.

Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.

Wash sections three times in wash buffer for 5 minutes each.

Add 100-400 ul DAB substrate to each section and monitor staining closely.

As soon as the sections develop, immerse slides in dH₂O.

Wash sections in dH₂O two times for 5 minutes each.

Mount coverslips.

Immunocytochemistry/Immunofluorescence Protocol for Ki67 antibody (NB110-89719)

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

