Product Datasheet

Ki67/MKI67 Antibody - BSA Free
NB110-90592

Unit Size: 0.1 ml

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

Reviews: 1  Publications: 16


Updated 8/8/2023 v.20.1

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**Product Information**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
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<tr>
<td>Target Molecular Weight</td>
<td>359 kDa</td>
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**Product Description**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>4288</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>MKI67</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Zebrafish</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Use in Zebrafish reported in scientific literature (PMID:32647136).</td>
</tr>
<tr>
<td>Marker</td>
<td>Proliferation Marker</td>
</tr>
<tr>
<td>Immunogen</td>
<td>The immunogen for this Ki67/MKI67 Antibody was made using a synthetic peptide from the internal region of Human Ki67/MKI67, between amino acids 1200-1300 [Uniprot: P46013].</td>
</tr>
</tbody>
</table>

**Product Application Details**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP)</td>
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<tr>
<td>Recommended Dilutions</td>
<td>Immunohistochemistry 1:3200, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:3200, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)</td>
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<tr>
<td>Application Notes</td>
<td>Ki67/MKI67 Antibody was used for IHC-Fr (PMID: 25647012) and IHC-P (PMID: 24599134).</td>
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</tbody>
</table>

**Images**

Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody [NB110-90592] - 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-NB110-90592 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.
Immunocytochemistry/Immunofluorescence: Ki67/MKI67 Antibody [NB110-90592] - 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- NB110-89717 at 2 ug/ml overnight at 4C and detected with an anti-rabbit 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.

Immunohistochemistry: Ki67/MKI67 Antibody [NB110-90592] - Deregulated MYC transforms breast acini into invasive breast carcinoma in vivo. Tumours harvested in Figure 1C were stained (above) for Ki67/MKI67 and TUNEL and were quantified (below) for the degree of Ki67/MKI67 and TUNEL staining. Individual quantifications per tumour are shown; *P<0.05, ***P<=0.001, one-way ANOVA with Bonferroni post-test for multiple testing. Scale bar: 100 um. Image collected and cropped by CiteAb from the following publication (http://dmm.biologists.org/lookup/doi/10.1242/dmm.038083), licensed under a CC-BY license.

Immunocytochemistry/Immunofluorescence: Ki67/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 X-100. 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/MKI67 Antibody [NB110-90592] - Detection of human lymph node. (20X)
Immunohistochemistry: Ki67/MKI67 Antibody [NB110-90592] - Detection of human lymph node. (40X)

Publications


Lima-Fernandes, E;Murison, A;da Silva Medina, T;Wang, Y;Ma, A;Leung, C;Luciani, GM;Haynes, J;Pollett, A;Zeller, C;Duan, S;Kreso, A;Barsyte-Lovejoy, D;Wouters, BG;Jin, J;Carvalho, DD;Lupien, M;Arrowsmith, CH;O'Brien, CA; Targeting bivalency de-represses Indian Hedgehog and inhibits self-renewal of colorectal cancer-initiating cells Nat Commun 2019-03-29 [PMID: 30926792] (IF/IHC, 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 antimals treated with a combination of pantoprazole and docetaxel compared to the ones treated with either drugs alone (Figure 2D).


More publications at http://www.novusbio.com/NB110-90592
Procedures

Immunohistochemistry Protocol for Ki67 Antibody (NB110-90592)

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
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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Products Related to NB110-90592

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<th>Product Code</th>
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<tr>
<td>HAF008</td>
<td>Goat anti-Rabbit IgG Secondary Antibody [HRP]</td>
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<tr>
<td>NB7156</td>
<td>Goat anti-Rabbit IgG (H+L) Secondary Antibody</td>
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<tr>
<td>NBP2-24891</td>
<td>Rabbit IgG Isotype Control</td>
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<tr>
<td>NB110-90592F-0.1ml</td>
<td>Ki67/MKI67 Antibody [FITC]</td>
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</table>

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