Product Datasheet

Ki-67/MKI67 Antibody
NB500-170

Unit Size: 0.1 ml

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

Reviews: 6  Publications: 71

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Updated 10/30/2018 v.20.1

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NB500-170
Ki-67/MKI67 Antibody

Product Information

<table>
<thead>
<tr>
<th>Unit Size</th>
<th>0.1 ml</th>
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<tbody>
<tr>
<td>Concentration</td>
<td>1.0 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>0.05% 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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Product Description

<table>
<thead>
<tr>
<th>Host</th>
<th>Rabbit</th>
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<tbody>
<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, Rat, Porcine</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Human, mouse, rat (pubmed 22521325) and porcine.</td>
</tr>
<tr>
<td>Marker</td>
<td>Proliferation Marker</td>
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<tr>
<td>Immunogen</td>
<td>A synthetic peptide made to an internal region of human Ki67 (within residues 1550-1700) [Swiss-Prot# P46013]</td>
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Product Application Details

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<thead>
<tr>
<th>Applications</th>
<th>Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin</th>
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<tbody>
<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 1-2 ug/ml, Immunohistochemistry 1:50-1:300, Immunocytochemistry/Immunofluorescence 1:20-1:100, Immunohistochemistry-Paraffin 1:50-1:300, Immunohistochemistry-Frozen 1:50-1:300</td>
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<tr>
<td>Application Notes</td>
<td>This Ki67 antibody is useful for IHC on frozen and paraffin-embedded tissues, as well as ICC/IF. Successful use in Western Blot has been reported in customer reviews. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. This antibody will not work without optimal antigen retrieval, and is a critical step. NOTE: We suggest an incubation period of 30 minutes at room temperature and to use DAB to stain the protein (immunofluorescence may give problems as the protein is nuclear).</td>
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</tbody>
</table>
Immunohistochemistry-Paraffin: Ki-67/MKI67 Antibody [NB500-170] - Analysis of a formalin fixed paraffin embedded tissue section of human tonsil using 1:50 dilution of rabbit anti-KI67 antibody. The staining was developed with HRP labeled anti-rabbit IgG secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This Ki67 antibody generated a specific nuclear staining in the cells in germinal centers of the tested tonsil tissue.

Immunohistochemistry-Paraffin: Ki-67/MKI67 Antibody [NB500-170] - Analysis of a formalin fixed paraffin embedded tissue section of human tonsil using 1:200 dilution of rabbit anti-KI67 antibody. The staining was developed with HRP labeled anti-rabbit IgG secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This Ki67 antibody generated a specific nuclear staining in the cells in germinal centers of the tested tonsil tissue.

Immunocytochemistry/Immunofluorescence: Ki-67/MKI67 Antibody [NB500-170] - Confocal immunofluorescent analysis of MCF7 cells using Ki67 antibody (NB500-170, 1:5). An Alexa Fluor 488-conjugated Goat to rabbit IgG was used as secondary antibody (green). Actin filaments were labeled with Alexa Fluor 568 phalloidin (red). DAPI was used to stain the cell nuclei (blue).

Immunocytochemistry/Immunofluorescence: Ki-67/MKI67 Antibody [NB500-170] - Ki67 antibody (1:100) 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.
Immunocytochemistry/Immunofluorescence: Ki-67/MKI67 Antibody [NB500-170] - Ki67 antibody was tested at 1:25 in HeLa cells with FITC (green). Nuclei and actin were counterstained with Dapi (blue) and Phalloidin (red).

Western Blot: Ki-67/MKI67 Antibody [NB500-170] - Analysis of A431 (A) and Hek293 (B) cell lysate using Ki67 antibody (NB500-170) at 2 µg/ml.


Immunohistochemistry-Paraffin: Ki-67/MKI67 Antibody [NB500-170] - Ki67 staining within mouse aortic sinus. This image was submitted via customer review.
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Fukuda Tatsuya, Fukuchi Tomokazu, Yagi Shinomi et al. Immunohistochemical analyses of cell cycle progression and gene expression of biliary epithelial cells during liver regeneration after partial hepatectomy of the mouse. Experimental Animals 2016 [PMID: 26633692] (IHC, Mouse)</td>
</tr>
<tr>
<td>Harris AL, Lee SE, Dawson LK et al. Targeting the cyclin dependent kinase and retinoblastoma axis overcomes standard of care resistance in BRAF V600E-mutant melanoma. Oncotarget. Feb 16 2018 12:00 AM [PMID: 29541385] (IHC-P)</td>
</tr>
</tbody>
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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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