Product Datasheet

Fibrillarin Antibody (38F3)

NB300-269

Unit Size: 0.25 ml

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

Reviews: 3  Publications: 12

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Updated 5/9/2019 v.20.1

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**NB300-269**  
Fibrillarin Antibody (38F3)

### Product Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.25 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>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>38F3</td>
</tr>
<tr>
<td>Preservative</td>
<td>10mM Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Purity</td>
<td>Affinity purified</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>34.5 kDa</td>
</tr>
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</table>

### Product Description

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Mouse</td>
</tr>
<tr>
<td>Gene ID</td>
<td>2091</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>FBL</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Rat, Porcine, Bovine, C. elegans, Chicken, Drosophila, Equine, Plant, Yeast</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Human, rat, mouse, chicken, C. elegans, Drosophila, plants and yeast. Other species not tested. C. elegans reported in scientific literature (PMIDs: 24722283). Plant reported in scientific literature (PMIDs: 27588463).</td>
</tr>
<tr>
<td>Marker</td>
<td>Nucleolar Marker</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Yeast nuclear preparation (S. cerevisiae).</td>
</tr>
</tbody>
</table>

### Product Application Details

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Whole-Mount, Knockdown Validated</td>
</tr>
<tr>
<td>Application Notes</td>
<td>This Fibrillarin Antibody (38F3) is useful for Western blot, Immunocytochemistry/Immunofluorescence, Flow Cytometry and Immunohistochemistry on both paraffin-embedded and frozen sections. In WB a band can be seen at approximately 34 kDa. In ICC/IF, this antibody shows prominent specular nucleolar staining. Use in Immunohistochemistry whole mount reported in scientific literature (PMID 24722283). Use in Immunohistochemistry-Frozen reported in scientific literature (PMID: 21539824). The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.</td>
</tr>
</tbody>
</table>

Immunocytochemistry/Immunofluorescence: Fibrillarin Antibody (38F3) [NB300-269] - High magnification confocal image of HeLa cells stained with fibrillarin antibody, dilution 1:100 from concentrated tissue culture media (Green), and costained with chicken vimentin pAb (Red), dilution 1:1,000. Nuclear DNA is revealed with the DAPI stain (Blue). The fibrillarin antibody shows strong staining of nucleoli in the nucleus, while the vimentin antibody reveals cytoplasmic intermediate filaments.

Immunocytochemistry/Immunofluorescence: Fibrillarin Antibody (38F3) [NB300-269] - IF Confocal analysis of MCF7 cells using Fibrillarin antibody (NB300-269, 1:5). An Alexa Fluor 488-conjugated Goat to mouse 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).

Immunohistochemistry-Paraffin: Fibrillarin Antibody (38F3) [NB300-269] - IHC staining of Fibrillarin in human ovarian cancer using DAB with hematoxylin counterstain.
Flow Cytometry: Fibrillarin Antibody (38F3) [NB300-269] - Fibrillarin antibody was tested at 1:400 in HEK293 cells using an Alexa Fluor 488 secondary (shown in green) alongside unstained cells (shown in red).

Western Blot: Fibrillarin Antibody (38F3) [NB300-269] - Western blot analysis of Fibrillarin expression on yeast protein extracts using NB300-269.

Immunocytochemistry/Immunofluorescence: Fibrillarin Antibody (38F3) [NB300-269] - Human SH-SY5Y cells stained with NB300-269, showing prominent specular nucleolar staining. The nuclei are counter stained with DAPI (blue), so these spots appear very pale blue. Neurofilament heavy protein was stained with NB300-217 (red).

Immunocytochemistry/Immunofluorescence: Fibrillarin Antibody (38F3) [NB300-269] - Fibrillarin immunofluorescence in fibroblasts. Image from verified customer review.
Publications


Tiku V. Small Nucleoli and Reduced Ribosomal Biogenesis are Hallmarks of Longevity Thesis 2017 (ICC/IF, Drosophila)


Mitrea DM, Cika JA, Guy CS et al. Nucleophosmin integrates within the nucleolus via multi-modal interactions with proteins displaying R-rich linear motifs and rRNA Elife Mar 1 2016 12:00AM [PMID: 26836305] (ICC/IF, Mouse)


Details:
Fibrillarin antibody was used for ICC/IF analysis of HCT116 cells overexpressing AcGFP-tagged Aes (AcGFP-Aes) and TLE1 (Fig. 1B).


Beyret E, Lin H. Pinpointing the expression of piRNAs and function of the PIWI protein subfamily during spermatogenesis in the mouse Dev Biol 2011 Jul 15 [PMID: 21539824] (IHC-Fr, Mouse)
Procedures

Immunohistochemistry-Paraffin Protocol Specific for NB300-269: Fibrillarin Antibody (38F3)

Materials

1) 1 Phosphate buffered saline (pH 7.6): NaCl 137mmol/L, KCl 2.7mmol/L, Na2HPO4 4.3mmol/L, KH2PO4 1.4 mmol/L
2) Citrate buffer, 0.01 M, pH6.0, Sodium Citrate 3g, Citric acid 0.4g
3) 3% Hydrogen peroxide
4) Primary antibody
5) Blocking serum (normal serum)
6) Biotinylated secondary antibody
7) DAB staining kit

Methods

1. Dewax and hydration of slides using xylene and EtOH:
   Dry slides for 20 min in a 60 C oven
   Add Xylene, 2 x 10 min
   100%, 95%, 80%, and 70% EtOH, 5 min each EtOH concentration
   Rinse in PBS, 5'

2 Antigen retrieval method (only for paraffin slides)
1a. High-pressure antigen retrieval procedure (recommended method)
   Place slides in a glass slide holder (ensure that the slide holder is completely filled with slides, slides without sections
   if necessary, to ensure even heating. The entire slide holder is immersed in 1000 ml of Citrate buffer (0.01M, pH6.0)
   within a pressure cooker
   Once steam is produced, and ONLY when steam is visible, from the pressure cooker (usually 15-20 min), the
   required high-pressure will have been reached, and slides will be incubated for 2 min.
   Turn off heat, and allow buffer and slides to cool to room temperature
   Slides are then rinsed in PBS for 5 minutes
2. Add 3% hydrogen peroxide solution, 10'at RT, then PBS, 3X5'
3. Normal blocking serum, 20'at RT
4. Incubate with Primary Ab, 4C overnight or 1.5 hours at 37C
5. Rinse with PBS, 3 X 5' each rinse
6. Add Biotin-conjugated second antibody, 10'at RT
7. Rinse with PBS, 3 X 5' each rinse
8. Add Streptavidin-Peroxidase, 10'at RT
9. Rinse with PBS, 3 X 5' each rinse
10. Staining with DAB solution, 2-5'under microscope
11. Stop the reaction by washing in tap water
12. Counterstain in Haematoxylin for 3-5 minutes
13. 75%, 80%, 95% and 100% ethanol, 5X2', xylene 2 x 10'

www.novusbio.com  technical@novusbio.com
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 100% guarantee, please visit www.novusbio.com/guarantee

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