Product datasheet

Anti-Fibrillarin antibody [EPR10823(B)] - Nucleolar Marker ab166630

Recombinant RabMAb

Overview

Product name | Anti-Fibrillarin antibody [EPR10823(B)] - Nucleolar Marker
Description | Rabbit monoclonal [EPR10823(B)] to Fibrillarin - Nucleolar Marker
Host species | Rabbit

Tested Applications & Species

<table>
<thead>
<tr>
<th>Application</th>
<th>Species</th>
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<tbody>
<tr>
<td>Flow Cyt</td>
<td>Human</td>
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<tr>
<td>ICC/IF</td>
<td>Human</td>
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<tr>
<td>IHC-P</td>
<td>Human</td>
</tr>
<tr>
<td>WB</td>
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Immunogen

Synthetic peptide corresponding to Human Fibrillarin aa 250 to the C-terminus.
Database link: P22087

Positive control

293T, HeLa, HepG2, HT-29 and MOLT4 cell lysates; Human liver and Human testis tissues; HeLa cells. Permeabilized MOLT4 cells; Immunoprecipitation pellet from HepG2 whole cell lysate (ab7900).

General notes

This product is a recombinant monoclonal antibody, which offers several advantages including:
- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.
Form  Liquid

Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

Storage buffer  pH: 7.2
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity  Tissue culture supernatant

Clonality  Monoclonal

Clone number  EPR10823(B)

Isotype  IgG

Properties

Applications

The Abpromise guarantee  Our Abpromise guarantee covers the use of ab166630 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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</table>
| All applications | Mouse
|               | Rat     |

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>WB</td>
<td>★★★★★★ (1)</td>
<td>1/1000 - 1/5000. Predicted molecular weight: 33 kDa.</td>
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<td>IHC-P</td>
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<td>1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<td>1/5000. For unpurified use at 1/100 - 1/250</td>
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Function
S-adenosyl-L-methionine-dependent methyltransferase that has the ability to methylate both RNAs and proteins. Involved in pre-rRNA processing by catalyzing the site-specific 2'-hydroxyl methylation of ribose moieties in pre-ribosomal RNA. Site specificity is provided by a guide RNA that base pairs with the substrate. Methylation occurs at a characteristic distance from the sequence involved in base pairing with the guide RNA. Also acts as a protein methyltransferase by mediating methylation of 'Gln-105' of histone H2A (H2AQ104me), a modification that impairs binding of the FACT complex and is specifically present at 35S ribosomal DNA locus (PubMed:24352239).

Sequence similarities
Belongs to the methyltransferase superfamily. Fibrillarin family.

Post-translational modifications
By homology to other fibrillarins, some or all of the N-terminal domain arginines are modified to asymmetric dimethylarginine (DMA).

Cellular localization
Nucleus, nucleolus. Fibrillar region of the nucleolus.

Images

**All lanes**: Anti-Fibrillarin antibody [EPR10823(B)] - Nucleolar Marker (ab166630) at 1/1000 dilution

- **Lane 1**: 293T cell lysate
- **Lane 2**: HeLa cell lysate
- **Lane 3**: HepG2 cell lysate
- **Lane 4**: MOLT4 cell lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size**: 33 kDa
Immunocytochemistry/Immunofluorescence analysis of HT-29 (human colorectal adenocarcinoma) cells labelling Fibrillarin (green) with purified ab166630 at 1/5000. Cells were fixed with 4% Paraformaldehyde and permeabilized with 0.1% Triton X-100. 

*ab150077*, Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as a nuclear counterstain.

Secondary Only Control: PBS was used instead of the primary antibody as the negative control.

Ab166630 showing +ve staining in Human gastric adenocarcinoma.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ab166630 showing +ve staining in Human normal tonsil.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ab166630 showing +ve staining in Human melanoma.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

ab166630 showing +ve staining in Human glioma.
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Immunohistochemical analysis of paraffin embedded Human liver tissue labeling Fibrillarin with ab166630 at a 1/100 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemical analysis of paraffin embedded Human testis tissue labeling Fibrillarin with ab166630 at a 1/100 dilution. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunofluorescent analysis of HeLa cells labeling Fibrillarin with ab166630 at a 1/100 dilution.
Flow cytometric analysis of permeabilized MOLT4 cells using ab166630 at a 1/10 dilution (red) or a Rabbit IgG (negative) (green).

Anti-Fibrillarin antibody [EPR10823(B)] - Nucleolar Marker (ab166630) at 1/1000 dilution + immunoprecipitation pellet from HepG2 cell lysate at 10 µg

**Predicted band size:** 33 kDa
Why choose a recombinant antibody?

- Research with confidence: Consistent and reproducible results
- Long-term and scalable supply: Recombinant technology
- Success from the first experiment: Confirmed specificity
- Ethical standards compliant: Animal-free production

Anti-Fibrillarin antibody [EPR10823(B)] - Nuclear Marker (ab166630)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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