**Product datasheet**

**Anti-Fibrillarin antibody - Nucleolar Marker ab5821**

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### Overview

**Product name**
Anti-Fibrillarin antibody - Nucleolar Marker

**Description**
Rabbit polyclonal to Fibrillarin - Nucleolar Marker

**Host species**
Rabbit

**Specificity**
This antibody detects a band at close to 34kDa in all species tested. The band can be completely blocked with the immuising peptide in all cases - this is very strong evidence that the antibody is recognising fibrillarin.

**Tested applications**
Suitable for: ICC/IF, WB

**Species reactivity**
Reacts with: Mouse, Human, Drosophila melanogaster

Predicted to work with: Xenopus laevis  ▲ Does not react with: Rat

**Immunogen**
Synthetic peptide corresponding to Human Fibrillarin aa 1-100 (C terminal) conjugated to keyhole limpet haemocyanin.

Database link: P22087

(Peptide available as ab13745)

**Positive control**
ICC/IF: HeLa cells

### Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**
pH: 7.40
Preservative: 0.02% Sodium azide
Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

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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
ab5821 staining Fibrillarin in HeLa cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Trition X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab5821 at 0.1µg/ml and ab7291, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. Cells were then incubated with ab150081, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed at 1/1000 dilution (shown in green) and ab150120, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594), pre-adsorbed at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).
All lanes: Anti-Fibrillarin antibody - Nucleolar Marker (ab5821) at 1 µg/ml

Lane 1: HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2: NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 3: Schneider L2 whole cell lysate (ab14893)

Lysates/proteins at 20 µg per lane.

Secondary
All lanes: Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) (ab65484) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 34 kDa
Observed band size: 37 kDa
why is the actual band size different from the predicted?
Additional bands at: 42 kDa, 70 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

Immunofluorescent imaging of human cells (U2OS) with ab5821 reveals highly specific localisation to the dense fibrillar component (DFC) of the nucleolus associated with the initial ribosomal RNA (rRNA) precursor. The nucleolar protein fibrillarin is located primarily in the DFC. Blue is hoechst staining of the nucleus, green is ab5821 used at 1/100, merge image demonstrates exclusively nuclear localisation.

IF was performed with a standard paraformaldehyde technique (fixed in PBS buffered PFH 4% for 5 minutes, permeabilised with 0.5% triton-PBS for 5 minutes, blocked with 5% milk / 0.2% tween for one hour. Primary antibody used at 1/100 in 5% milk / 0.2% TWEEN for one hour, secondary antibody Alexa 488 for 30 minutes. All blocking and incubation steps carried out at 37 degrees C.

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