

Fibrillarlin Antibody
Rabbit mAb
Catalog # AP90515

Specification

Fibrillarlin Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	P22087
Reactivity	Rat
Clonality	Monoclonal
Other Names	
FBL;FIB;FLRN;RNU3IP1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	33784 Da

Fibrillarlin Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Fibrillarlin
Description	Fibrillarlin is a 2'-O-methyltransferase located in fibrillar regions and Cajal bodies of the nucleolus, where RNA transcription and pre-RNA processing take place. Fibrillarlin associates with several other structural proteins as well as box C/D snoRNA to form a complex that functions in pre-rRNA processing, pre-rRNA methylation and ribosome assembly. This complex catalyzes site-specific 2'-O-ribose methylation of targeted nucleotides within the rRNA sequence. The sequence, structure and function of fibrillarlin are highly conserved and fibrillarlin gene expression is essential for early embryonic development.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Fibrillarlin Antibody - Protein Information

Name FBL ([HGNC:3599](#))

Synonyms FIB1, FLRN

Function

S-adenosyl-L-methionine-dependent methyltransferase that has the ability to methylate both RNAs and proteins (PubMed:[24352239](http://www.uniprot.org/citations/24352239), PubMed:[30540930](http://www.uniprot.org/citations/30540930), PubMed:[32017898](http://www.uniprot.org/citations/32017898), PubMed:[32017898](http://www.uniprot.org/citations/32017898)). Involved in pre-rRNA processing by catalyzing the site-specific 2'-hydroxyl methylation of ribose moieties in pre-ribosomal RNA (PubMed:[30540930](http://www.uniprot.org/citations/30540930)). Site specificity is provided by a guide RNA that base pairs with the substrate (By similarity). Methylation occurs at a characteristic distance from the sequence involved in base pairing with the guide RNA (By similarity). Probably catalyzes 2'-O-methylation of U6 snRNAs in box C/D RNP complexes (PubMed:[32017898](http://www.uniprot.org/citations/32017898)). U6 snRNA 2'-O-methylation is required for mRNA splicing fidelity (PubMed:[32017898](http://www.uniprot.org/citations/32017898)). 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](http://www.uniprot.org/citations/24352239), PubMed:[30540930](http://www.uniprot.org/citations/30540930)). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:[34516797](http://www.uniprot.org/citations/34516797)).

Cellular Location

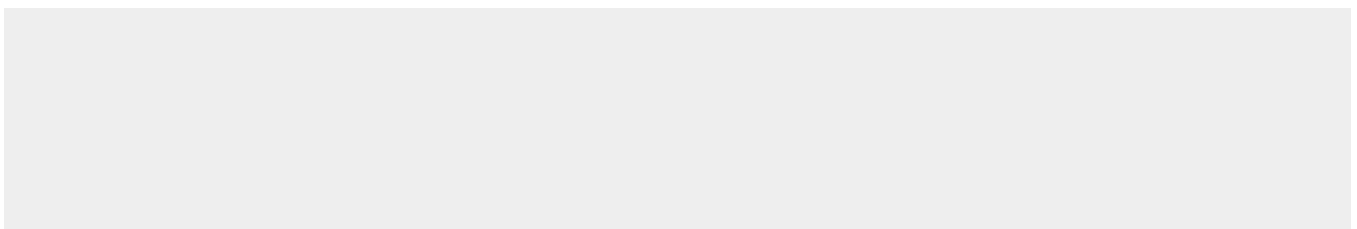
Nucleus, nucleolus. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:P35550}. Note=Fibrillar region of the nucleolus

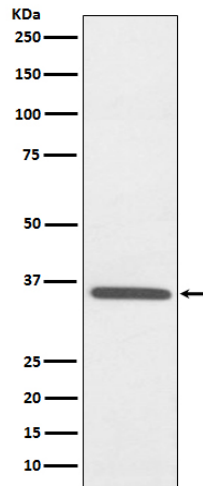
Fibrillarin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Fibrillarin Antibody - Images





Western blot analysis of Fibrillarin expression in HepG2 cell lysate.