

Anti-Fibrillarin FBL Rabbit Monoclonal Antibody
Catalog # ABO14079**Specification****Anti-Fibrillarin FBL Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	P22087
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Fibrillarin FBL Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-Fibrillarin FBL Rabbit Monoclonal Antibody - Additional Information

Gene ID 2091

Other Names

rRNA 2'-O-methyltransferase fibrillarin, 2.1.1.-, 34 kDa nucleolar scleroderma antigen, Histone-glutamine methyltransferase, U6 snRNA 2'-O-methyltransferase fibrillarin, FBL (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=3599 target="_blank">HGNC:3599), FIB1, FLRN

Calculated MW

33784 MW KDa

Application Details

WB 1:500-1:2000
IHC 1:50-1:100
ICC/IF 1:50-1:100
IP :
1:30
FC 1:50

Subcellular Localization

Nucleus, nucleolus. Fibrillar region of the nucleolus.

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Fibrillarin

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Fibrillar FBL Rabbit Monoclonal 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)). 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

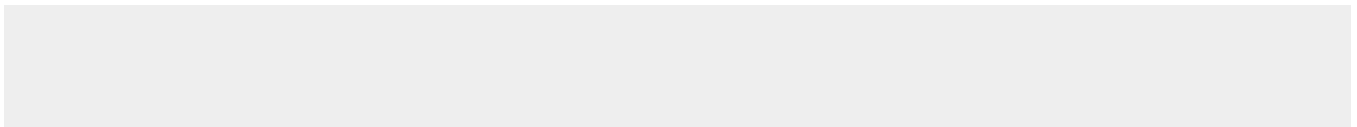
Nucleus, nucleolus. Nucleus, nucleoplasm {ECO:0000250|UniProtKB:P35550}. Note=Fibrillar region of the nucleolus

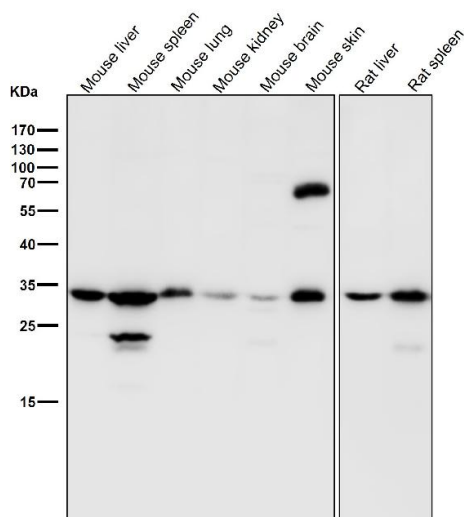
Anti-Fibrillar FBL Rabbit Monoclonal Antibody - Protocols

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

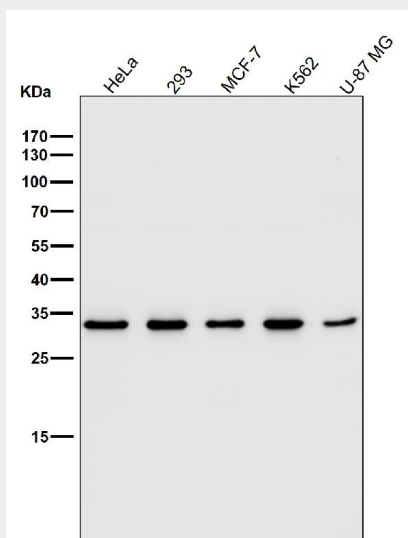
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Fibrillar FBL Rabbit Monoclonal Antibody - Images

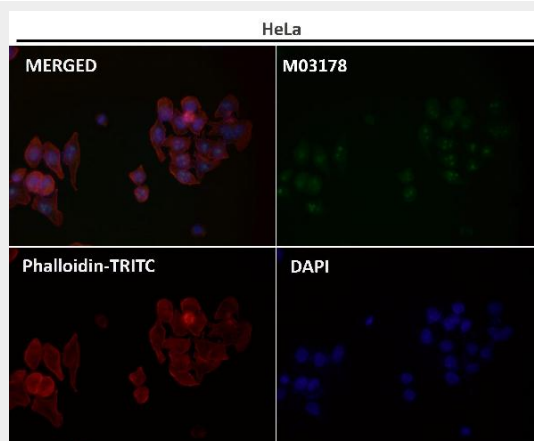




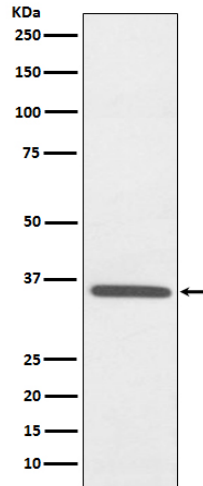
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



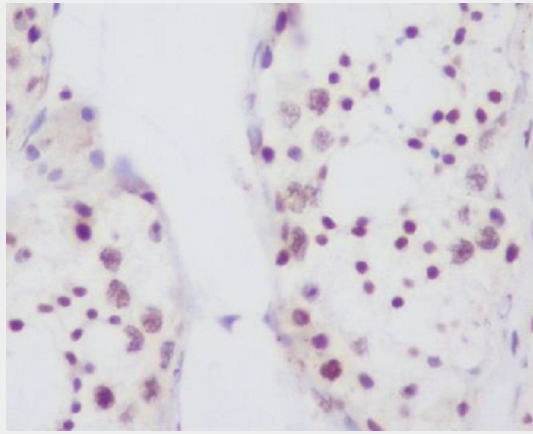
All lanes use the Antibody at 1:2K dilution for 1 hour at room temperature.



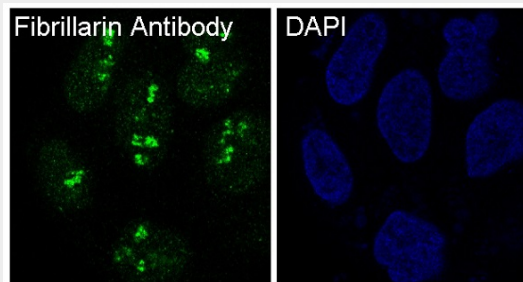
Immunofluorescent analysis using the Antibody at 1:50 dilution.



Western blot analysis of Fibrillarlin expression in HepG2 cell lysate.



Immunohistochemical analysis of paraffin-embedded human testis, using Fibrillarlin Antibody.



Immunofluorescent analysis of HeLa cells, using Fibrillarlin Antibody.