

Rabbit FBL Polyclonal Antibody | anti-FBL antibody

FBL Antibody

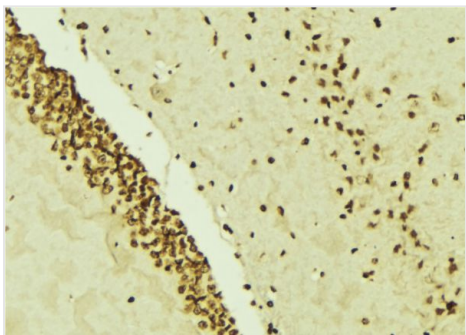
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326050	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

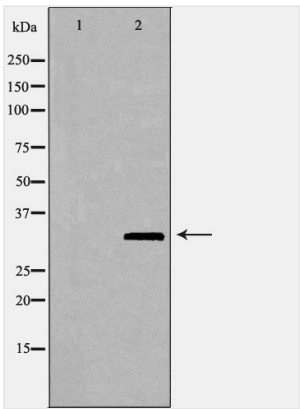
FBL; Polyclonal Antibody; FBL Antibody; 34 kD nucleolar scleroderma antigen; 34 kDa nucleolar scleroderma antigen; Fbl; FBRL_HUMAN; FIB; FIB1; FLRN; Histone-glutamine methyltransferase; Nop1p; RNA U3 small nucleolar interacting protein 1; RNU3IP1; rRNA 2' O methyltransferase fibrillarin; rRNA 2'-O-methyltransferase fibrillarin; anti-FBL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FBL antibody detects endogenous levels of total FBL
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	321
Applicable Applications for anti-FBL antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FBL
Subcellular Location	Nucleus, Nucleolus. Fibrillar region of the nucleolus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Zebrafish (83%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (92%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326050 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using FBL Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FBL antibody

Description: Fibrillarin is a 2'-O-methyltransferase located in fibrillar regions and Cajal bodies of the nucleolus, where RNA transcription and pre-RNA processing take place (1, 2). Fibrillarin 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 (3, 4). The sequence, structure and function of fibrillarin are highly conserved and fibrillarin gene expression is essential for early embryonic development (5).

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).

Subunit Structure: Interacts with NOLC1 (By similarity). Component of box C/D small nucleolar ribonucleoprotein (snoRNP) particles that contain SNU13, FBL, NOP5 and NOP56, plus a guide RNA. It is associated with the U3, U8, U13, X and Y small nuclear RNAs. Component of several ribosomal and nucleolar protein complexes. Interacts with PRMT5 and UTP20. Interacts with DDX5 and C1QBP. Interacts with NOL11. Interacts with PIH1D1 (PubMed:17636026). Interacts with RRP1B (PubMed:20926688).

Post-translational Modifications: Ubiquitinated. Ubiquitination leads to proteasomal degradation (PubMed:19208757). Deubiquitinated by USP36 (PubMed:19208757). By homology to other fibrillarins, some or all of the N-terminal domain arginines are modified to asymmetric dimethylarginine (DMA).

Similarity: Belongs to the methyltransferase superfamily. Fibrillarin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12056465
NCBI GeneID	2091
NCBI Accession #	NP_001427.2
NCBI GenBank Nucleotide #	NM_001436.3
UniProt Accession #	P22087; O75259; Q6IAT5; Q9UPI6; B5BUE8
Molecular Weight	Observed: 34 kDa Predicted: 34 kDa
NCBI Official Full Name	rRNA 2'-O-methyltransferase fibrillarin
NCBI Official Synonym Full Names	fibrillarin
NCBI Official Symbol	FBL

NCBI Official Synonym Symbols	FIB; FLRN; Nop1; RNU3IP1
NCBI Protein Information	rRNA 2'-O-methyltransferase fibrillarin
UniProt Protein Name	rRNA 2'-O-methyltransferase fibrillarin
UniProt Gene Name	FBL
UniProt Synonym Gene Names	FIB1; FLRN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fbl-antibody-immunohistochemistry-western-blot-elisa/326050>