ARG43247
anti-Fibrillarin antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Fibrillarin
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Fibrillarin
Species	Human
Immunogen	Synthetic peptide derived from Human Fibrillarin.
Conjugation	Un-conjugated
Alternate Names	rRNA 2'-O-methyltransferase fibrillarin; RNU3IP1; 34 kDa nucleolar scleroderma antigen; FIB; FLRN; EC 2.1.1.-; Histone-glutamine methyltransferase

Application Instructions

Application table

Application	Dilution
FACS	1:50
ICC/IF	1:50 - 1:100
IHC-P	1:50 - 1:100
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HepG2
Observed Size	~ 35 kDa

Properties

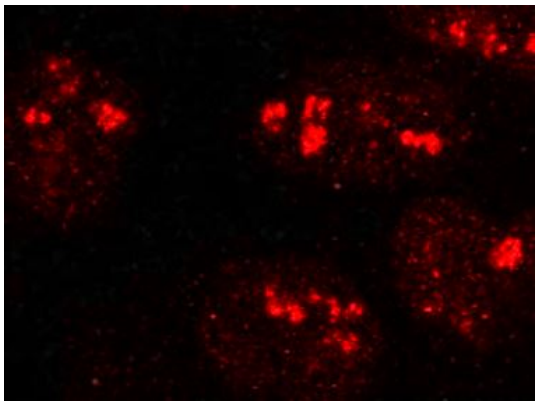
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

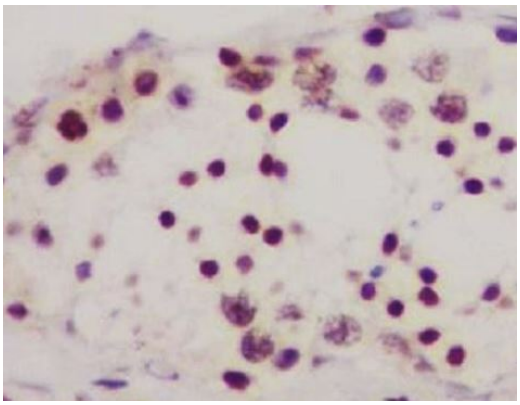
Gene Symbol	FBL
Gene Full Name	fibrillarin
Background	This gene product is a component of a nucleolar small nuclear ribonucleoprotein (snRNP) particle thought to participate in the first step in processing preribosomal RNA. It is associated with the U3, U8, and U13 small nuclear RNAs and is located in the dense fibrillar component (DFC) of the nucleolus. The encoded protein contains an N-terminal repetitive domain that is rich in glycine and arginine residues, like fibrillarins in other species. Its central region resembles an RNA-binding domain and contains an RNP consensus sequence. Antisera from approximately 8% of humans with the autoimmune disease scleroderma recognize fibrillarin. [provided by RefSeq, Jul 2008]
Function	S-adenosyl-L-methionine-dependent methyltransferase that has the ability to methylate both RNAs and proteins (PubMed:24352239, PubMed:30540930). Involved in pre-rRNA processing by catalyzing the site-specific 2'-hydroxyl methylation of ribose moieties in pre-ribosomal RNA (PubMed: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). 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, PubMed:30540930). [UniProt]
Calculated Mw	34 kDa
PTM	By homology to other fibrillarins, some or all of the N-terminal domain arginines are modified to asymmetric dimethylarginine (DMA). [UniProt]
Cellular Localization	Nucleus, nucleolus. Note=Fibrillar region of the nucleolus. [UniProt]

Images



ARG43247 anti-Fibrillarin antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG43247 anti-Fibrillarin antibody.



ARG43247 anti-Fibrillarin antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue stained with ARG43247 anti-Fibrillarin antibody.

ARG43247 anti-Fibrillarin antibody WB image

Western blot: HepG2 cell lysate stained with ARG43247 anti-Fibrillarin antibody.