

## Recombinant Human FBL, His-tagged

**Cat. No.** FBL-28104TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human FBL protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 83-321aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 1mM DTT, 0.2M NaCl, 1mM EDTA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 28.9 kDa (262aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH RSMGKNVMVE PHRHEGVFIC RGKEDALVTK<br>NLVPGESVYG EKRVSISEGD DKIEYRAWNP FRSKLAAAIL GGVDQIHKP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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GAKVLYLGAA SGTTVSHVSD IVGPDGLVYA VEFSHRSGRD LINLAKKRTN  
IIPVIEDARH PHKYRMLIAM VDVIFADVAQ PDQTRIVALN AHTFLRNGGH  
FVISIKANCI DSTASAEAVF ASEVKKMQQE NMKPQEQLTL EPYERDHAVV  
VGVYRPPPKV KN

**Purity** >85 % by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** FBL fibrillarin [ Homo sapiens (human) ]

**Official Symbol** FBL

**Synonyms** FBL; fibrillarin; rRNA 2-O-methyltransferase fibrillarin; FIB; FLRN; RNU3IP1; 34-kD nucleolar scleroderma antigen; 34 kDa nucleolar scleroderma antigen; RNA, U3 small nucleolar interacting protein 1

**Gene ID** 2091

**mRNA Refseq** NM\_001436

**Protein Refseq** NP\_001427

**MIM** 134795

**UniProt ID** P22087

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|----------------------------|-------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 19q13.1                                                                                         |
| <b>Pathway</b>             | Ribosome biogenesis in eukaryotes; TNF-alpha/NF-kB Signaling Pathway                            |
| <b>Function</b>            | RNA binding; histone-glutamine methyltransferase activity; protein binding; poly(A) RNA binding |

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