FBL Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	FBL, Blocking Peptide
Full Product Name	FBL Blocking Peptide
Product Gene Name	FBL blocking peptide
Product Synonym Names	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
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	FBL peptide (MBS9625646) is used for blocking the activity of FBL antibody (MBS9606929)
Molecular Weight	33,784 Da
OMIM	134795
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for FBL blocking peptide	Blocking/Control
Related Product Information for FBL blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of FBL blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FBL purchase	MBS9625646 is a blocking peptide targeting FBL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FBL. It may not necessarily be applicable to this product.

NCBI GI #	12056465
NCBI GeneID	2091
NCBI Accession #	NP_001427.2
UniProt Primary Accession #	P22087
UniProt Secondary Accession #	O75259; Q6IAT5; Q9UPI6; B5BUE8

UniProt Related Accession #	P22087
GenBank Nucleotide #	NM_001436.3
NCBI Official Full Name	Homo sapiens fibrillarin (FBL), mRNA
NCBI Official Synonym Full Names	fibrillarin
NCBI Official Symbol	FBL
NCBI Official Synonym Symbols	FIB; FLRN; RNU3IP1
UniProt Protein Name	rRNA 2'-O-methyltransferase fibrillarin
UniProt Synonym Protein Names	34 kDa nucleolar scleroderma antigen
Protein Family	rRNA 2'-O-methyltransferase fibrillarin
UniProt Gene Name	FBL
UniProt Synonym Gene Names	FIB1; FLRN
UniProt Entry Name	FBRL_HUMAN
NCBI Protein Information	rRNA 2'-O-methyltransferase fibrillarin; 34 kDa nucleolar scleroderma antigen; 34-kD nucleolar scleroderma antigen; RNA, U3 small nucleolar interacting protein 1; histone-glutamine methyltransferase
NCBI Summary for FBL	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]
UniProt Comments for FBL	FBL: Involved in pre-rRNA processing. Utilizes the methyl donor S-adenosyl-L-methionine to catalyze 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. Interacts with NOLC1. Component of box C/D small nucleolar ribonucleoprotein (snoRNP) particles that contain NHP2L1, 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. Belongs to the methyltransferase superfamily. Fibrillarin family. Protein type: RNA-binding; RNA processing; Methyltransferase; Nucleolus; EC 2.1.1.- Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: Cajal body; granular component; membrane; nucleolus; nucleus Molecular Function: protein binding; RNA binding Biological Process: osteoblast differentiation; snoRNA metabolic process; tRNA processing; rRNA processing
Research Articles on FBL	**1.** FBL overexpression contributes to tumorigenesis and is associated with poor survival in patients with breast cancer.
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