

FTSJ1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16123a**Specification**

FTSJ1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9UET6](#)**FTSJ1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 24140**Other Names**

Putative tRNA (cytidine(32)/guanosine(34)-2'-O)-methyltransferase {ECO:0000255|HAMAP-Rule:MF_03162}, 211205 {ECO:0000255|HAMAP-Rule:MF_03162}, 2'-O-ribose RNA methyltransferase TRM7 homolog {ECO:0000255|HAMAP-Rule:MF_03162}, Protein ftsJ homolog 1 {ECO:0000255|HAMAP-Rule:MF_03162}, FTSJ1 {ECO:0000255|HAMAP-Rule:MF_03162}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FTSJ1 Antibody (N-term) Blocking Peptide - Protein Information**Name** FTSJ1 {ECO:0000255|HAMAP-Rule:MF_03162}**Function**

Methylates the 2'-O-ribose of nucleotides at positions 32 and 34 of the tRNA anticodon loop of substrate tRNAs (PubMed:25404562, PubMed:32558197, PubMed:32198346, PubMed:33771871, PubMed:26310293, PubMed:36720500). Requisite for faithful cytoplasmic translation (PubMed:32393790). Requires THADA for methylation of the nucleotide at position 32 of the anticodon loop of substrate tRNAs (PubMed:26310293, PubMed:25404562). Requires WDR6 for methylation of the nucleotide at position 34 of the anticodon loop of substrate tRNAs (PubMed:32558197).

target="_blank">32558197, PubMed:33771871). Promotes translation efficiency of the UUU codon (PubMed:32558197). Plays a role in neurogenesis (PubMed:36720500). Required for expression of genes involved in neurogenesis, mitochondrial translation and energy generation, and lipid biosynthesis (PubMed:36720500, PubMed:33771871). Requisite for RNA-mediated gene silencing (PubMed:36720500). May modify position 32 in tRNA(Arg(ACG)), tRNA(Arg(CCG)), tRNA(Arg(UCG)), tRNA(Cys(GCA)), tRNA(Cys(ACA)), tRNA(Gln(CUG)), tRNA(Gln(UUG)), tRNA(Gly(CCC)), tRNA(Leu(CAG))/tRNA(Leu(CAA)), tRNA(Leu(A/IAG)), tRNA(Leu(UAG)), tRNA(Phe(GAA)), tRNA(Pro(AGG))/tRNA(Pro(CGG))/tRNA(Pro(UGG)) and tRNA(Trp(CCA)), and position 34 in tRNA(Phe(GAA)), tRNA(Leu(CAA)), tRNA(Sec(UCA)), and tRNA(Trp(CCA)) (PubMed:32558197, PubMed:32198346, PubMed:33771871, PubMed:26310293, PubMed:36720500).

Cellular Location

Cytoplasm. Nucleus. Note=Predominantly cytoplasmic

Tissue Location

Found in fetal brain, lung, liver and kidney (PubMed:15162322). Widely expressed in adult tissue; with high expression in heart and liver, lower expression in skeletal muscle, kidney, and pancreas and also lowly expressed in brain and lung (PubMed:15342698). In the adult brain, expressed in amygdala, caudate nucleus, corpus callosum, hippocampus and thalamus (PubMed:15162322)

FTSJ1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

FTSJ1 Antibody (N-term) Blocking Peptide - Images

FTSJ1 Antibody (N-term) Blocking Peptide - Background

The protein encoded by this gene is a member of the S-adenosylmethionine-binding protein family. It is a nucleolar protein and may be involved in the processing and modification of rRNA. Three alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq].

FTSJ1 Antibody (N-term) Blocking Peptide - References

Takano, K., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (4), 479-484 (2008) :Gong, P., et al. J. Neurogenet. 22(4):277-287(2008) Dai, L., et al. J. Hum. Genet. 53(7):592-597(2008) Froyen, G., et al. Hum. Genet. 121(5):539-547(2007) Lamesch, P., et al. Genomics 89(3):307-315(2007)