

FTSJ1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16123a**Specification**

FTSJ1 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9UET6
Other Accession	NP_036412.1 , NP_803183.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36079
Antigen Region	1-30

FTSJ1 Antibody (N-term) - 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}

Target/Specificity

This FTSJ1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human FTSJ1.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FTSJ1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

FTSJ1 Antibody (N-term) - 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:[26310293](#), PubMed:[32198346](#), PubMed:[32558197](#), PubMed:[33771871](#), 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:[25404562](#), PubMed:[26310293](#)). Requires WDR6 for methylation of the nucleotide at position 34 of the anticodon loop of substrate tRNAs (PubMed:[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:[33771871](#), PubMed:[36720500](#)). 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:[26310293](#), PubMed:[32198346](#), PubMed:[32558197](#), PubMed:[33771871](#), PubMed:[36720500](#)).

Cellular Location

Cytoplasm. Nucleus. Note=Predominantly cytoplasmic

Tissue Location

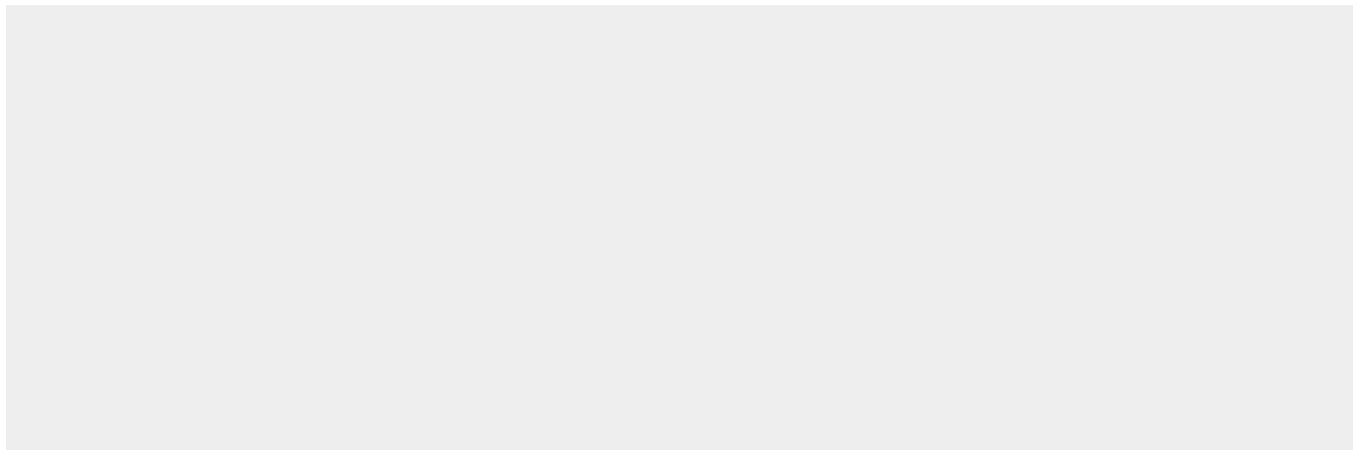
Found in fetal brain, lung, liver and kidney (PubMed:15162322). Widely expressed in adult tissue; with high expression in heart and liver, lower expression in skeletal muscle, kidney, and pancreas and also lowly expressed in brain and lung (PubMed:15342698). In the adult brain, expressed in amygdala,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

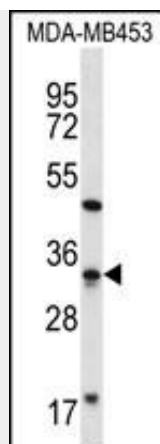
FTSJ1 Antibody (N-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FTSJ1 Antibody (N-term) - Images





FTSJ1 Antibody (N-term) (Cat. #AP16123a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the FTSJ1 antibody detected the FTSJ1 protein (arrow).

FTSJ1 Antibody (N-term) - 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) - 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)