SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-FTSJ1 antibody

SL12264R

Product Name:	FTSJ1
Chinese Name:	精神发育迟滞相关蛋白抗体
Alias:	CDLIV; FTSJ 1; FtsJ homolog 1 (E. coli); FtsJ homolog 1; JM23; Mental retardation X linked 44; Mental retardation X linked 9; MRX44; MRX9; Putative ribosomal RNA methyltransferase 1; RRMJ1; SPB1; TRM7; RRMJ1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	36kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human FTSJ1:1-110/329
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	FTSJ1 is a 329 amino acid nucleolar protein belonging to the RlmE family and methyltransferase superfamily. Expressed in adult thalamus, hippocampus, amygdala, corpus callosum and caudate nucleus, as well as fetal kidney, lung, liver, brain and lung, FTSJ1 plays a role in rRNA modification and processing. FTSJ1 exists as multiple spliced isoforms which are encoded by a gene located on human chromosome Xp11.23.

Notably, defects in the gene encoding FTSJ1 are the cause of mental retardation X-linked type 44 (MRX44) and nonsyndromic X-linked mental retardation (MRX9).

Function:
FTSJ1 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.

Tissue Specificity:
Found in fetal brain, lung, liver and kidney. In the adult brain, expressed in amygdala, caudate nucleus, corpus callosum, hippocampus and thalamus.

DISEASE:
Defects in FTSJ1 are the cause of mental retardation X-linked type 44 (MRX44) [MIM:309549]. Mental retardation is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Non-syndromic mental retardation patients do not manifest other clinical signs.

Similarity:
Belongs to the methyltransferase superfamily. RlmE family.

SWISS:
Q9UET6

Gene ID:
24140

Database links:

Entrez Gene: 24140Human

Entrez Gene: 54632Mouse

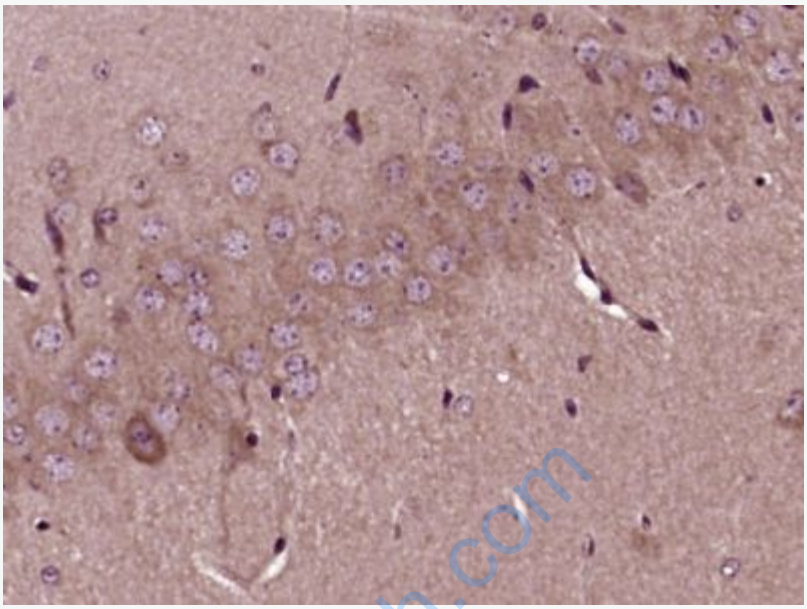
Entrez Gene: 363450Rat

Omim: 300499Human

SwissProt: Q9UET6Human

Unigene: 23170Human

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (FTSJ1) Polyclonal Antibody, Unconjugated (SL12264R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.