

TRMT5 Rabbit pAb

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Catalog # AP56577

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q32P41
Predicted	Rat, Pig, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58256
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRMT5
Epitope Specificity	201-300/509
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	tRNAs contain as many as 13 or 14 nucleotides that are modified posttranscriptionally by enzymes that are highly specific for particular nucleotides in the tRNA structure. TRMT5 methylates the N1 position of guanosine-37 (G37) in selected tRNAs using S-adenosyl methionine (Brule et al., 2004 [PubMed 15248782]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	57570
Other Names	tRNA (guanine(37)-N(1))-methyltransferase {ECO:0000255 HAMAP-Rule:MF_03152}, 2.1.1.228 {ECO:0000255 HAMAP-Rule:MF_03152}, M1G-methyltransferase {ECO:0000255 HAMAP-Rule:MF_03152}, tRNA [GM37] methyltransferase {ECO:0000255 HAMAP-Rule:MF_03152}, tRNA methyltransferase 5 homolog {ECO:0000255 HAMAP-Rule:MF_03152}, TRMT5 {ECO:0000255 HAMAP-Rule:MF_03152}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	TRMT5 {ECO:0000255 HAMAP-Rule:MF_03152}
Function	Involved in mitochondrial tRNA methylation (PubMed: 26189817). Specifically methylates the N1 position of guanosine-37 in various tRNAs. Methylation is not dependent on the nature of the nucleoside 5' of the target nucleoside. This is the first step in the biosynthesis of wybutosine (yW), a modified base adjacent to the anticodon of tRNAs and required for accurate decoding.
Cellular Location	Mitochondrion matrix {ECO:0000255 HAMAP- Rule:MF_03152, ECO:0000269 PubMed:26189817}. Nucleus {ECO:0000255 HAMAP-Rule:MF_03152}. Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03152}. Note=Predominantly in the mitochondria and in the nucleus. {ECO:0000255 HAMAP-Rule:MF_03152}

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.