Applications

• WB



TRMT10C Rabbit pAb

CatalogNo: YN8427

| Key Features

Host Species Reactivity

Rabbit
 Human, Mouse, Rat

MW Isotype • 44kD (Calculated) • IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human TRMT10C

Specificity This antibody detects endogenous levels of TRMT10C at Human, Mouse,Rat

| Target Information

Gene name TRMT10C MRPP1 RG9MTD1

Protein Name

Mitochondrial ribonuclease P protein 1 (Mitochondrial RNase P protein 1) (HBV pre-S2 transregulated protein 2) (RNA (guanine-9-)-methyltransferase domain-containing protein 1) (Renal carcinoma antigen NY-REN-49) (tRNA methyltransferase 10 homolog C)

Organism	Gene ID	UniProt ID
Human	<u>54931</u> ;	<u>Q7L0Y3;</u>
Mouse	<u>52575</u> ;	Q3UFY8;
Rat	304012;	<u>Q5U2R4;</u>

Cellular Localization

Mitochondrion matrix, mitochondrion nucleoid.

Function

Mitochondrial tRNA N(1)-methyltransferase involved in mitochondrial tRNA maturation. Component of mitochondrial ribonuclease P, a complex composed of TRMT10C/MRPP1, HSD17B10/MRPP2 and PRORP/MRPP3, which cleaves tRNA molecules in their 5'-ends. Together with HSD17B10/MRPP2, forms a subcomplex of the mitochondrial ribonuclease P, named MRPP1-MRPP2 subcomplex, which displays functions that are independent of the ribonuclease P activity. The MRPP1-MRPP2 subcomplex catalyzes the formation of N(1)methylguanine and N(1)-methyladenine at position 9 (m1G9 and m1A9, respectively) in tRNAs; TRMT10C/MRPP1 acting as the catalytic N(1)-methyltransferase subunit. The MRPP1-MRPP2 subcomplex also acts as a tRNA maturation platform: following 5'-end cleavage by the mitochondrial ribonuclease P complex, the MRPP1-MRPP2 subcomplex enhances the efficiency of 3'-processing catalyzed by ELAC2, retains the tRNA product after ELAC2 processing and presents the nascent tRNA to the mitochondrial CCA tRNA nucleotidyltransferase TRNT1 enzyme. In addition to tRNA N(1)-methyltransferase activity, TRMT10C/MRPP1 also acts as a mRNA N(1)-methyltransferase by mediating methylation of adenosine residues at the N(1) position of MT-ND5 mRNA. Associates with mitochondrial DNA complexes at the nucleoids to initiate RNA processing and ribosome assembly.

| Validation Data

Contact information

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Please scan the QR code to access additional product information: **TRMT10C Rabbit**

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Antibody | ELISA Kits | Protein | Reagents

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