TRMT10C mouse mAb

Catalog No	YP-mAb-17794
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TRMT10C MRPP1 RG9MTD1
Immunogen	Synthesized peptide derived from human TRMT10C
Specificity	This antibody detects endogenous levels of TRMT10C at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RG9MTD1;MRPP1;TRMT10C;TRMT10C MRPP1 RG9MTD1;Mitochondrial ribonuclease P protein 1 (Mitochondrial RNase P protein 1) (EC 2.1.1.-) (HBV pre-S2 trans-regulated protein 2) (RNA (guanine-9-)-methyltransferase domain-containing protein 1) (Renal car
Observed Band	40-45 kDa
Calculated Molecular Weight	47 kDa
Cell Pathway	Mitochondrion matrix, mitochondrion nucleoid .
Tissue Specificity	
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 th
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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