QTRT1 mouse mAb

Catalog No	YP-mAb-19416
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	QTRT1 TGT TGUT
Protein Name	Queuine tRNA-ribosyltransferase (Guanine insertion enzyme) (tRNA-guanine transglycosylase)
Immunogen	Synthesized peptide derived from human QTRT1. AA range:283-353
Specificity	This antibody detects endogenous levels of QTRT1 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 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Calculated Molecular Weight	44kD
Cell Pathway	Cytoplasm . Mitochondrion outer membrane ; Peripheral membrane protein ; Cytoplasmic side . Weakly associates with mitochondria , possibly via QTRT2. .
Tissue Specificity	
Function	Catalytic subunit of the queuine tRNA-ribosyltransferase (TGT) that catalyzes the base-exchange of a guanine (G) residue with queuine (Q) at position 34 (anticodon wobble position) in tRNAs with GU (N) anticodons (tRNA-Asp , -Asn , -His and -Tyr) , resulting in the hypermodified nucleoside queuosine (7- (((4 ,5-cis-dihydroxy-2-cyclopenten-1-yl) amino) methyl) -7-deazaguanosine) . Catalysis occurs through a double-displacement mechanism. The nucleophile active site attacks the C1' of nucleotide 34 to detach the guanine base from the RNA , forming a covalent enzyme-RNA intermediate. The proton acceptor active site deprotonates the incoming queuine , allowing a nucleophilic attack on the C1' of the ribose to form the product (By similarity) .
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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