

QTRTD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57628

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9H974
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46713
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human QTRTD1
Epitope Specificity	151-250/415
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. Mitochondrion. May associate with the mitochondrion outer membrane.
SIMILARITY	Belongs to the queueine tRNA-ribosyltransferase family. QTRTD1 subfamily.
SUBUNIT	Interacts with QTRT1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a subunit of tRNA-guanine transglycosylase. tRNA-guanine transglycosylase is a heterodimeric enzyme complex that plays a critical role in tRNA modification by synthesizing the 7-deazaguanosine queuosine, which is found in tRNAs that code for asparagine, aspartic acid, histidine, and tyrosine. The encoded protein may play a role in the queuosine 5'-monophosphate salvage pathway. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

Additional Information

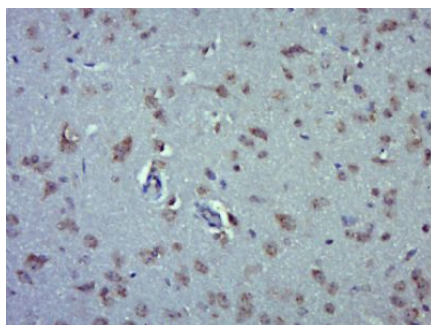
Gene ID	79691
Other Names	Queueine tRNA-ribosyltransferase accessory subunit 2 {ECO:0000255 HAMAP-Rule:MF_03043}, Queueine tRNA-ribosyltransferase domain-containing protein 1 {ECO:0000255 HAMAP-Rule:MF_03043}, QTRT2 {ECO:0000255 HAMAP-Rule:MF_03043}, QTRTD1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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.
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Protein Information

Name	QTRT2 {ECO:0000255 HAMAP-Rule:MF_03043}
Synonyms	QTRTD1
Function	Non-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).
Cellular Location	Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03043}. Mitochondrion outer membrane {ECO:0000255 HAMAP-Rule:MF_03043}; Peripheral membrane protein {ECO:0000255 HAMAP-Rule:MF_03043}; Cytoplasmic side {ECO:0000255 HAMAP-Rule:MF_03043}. Note=May associate with the mitochondrion outer membrane. {ECO:0000255 HAMAP-Rule:MF_03043}

Images



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 (QTRTD1) Polyclonal Antibody, Unconjugated (AP57628) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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