

RPUSD3 Rabbit pAb

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Catalog # AP57271

Product Information

Application	WB
Primary Accession	Q6P087
Reactivity	Mouse
Predicted	Pig, Dog, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38461
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RPUSD3
Epitope Specificity	31-130/351
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	Nuclear
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	RPUSD3 belongs to the pseudouridine synthase rluA family. Members of this family are involved in modifying bases in RNA molecules. Pseudouridine synthases are responsible for synthesis of pseudouridine from uracil.

Additional Information

Gene ID	285367
Other Names	Mitochondrial mRNA pseudouridine synthase RPUSD3, 5.4.99.-, RNA pseudouridylate synthase domain-containing protein 3, RPUSD3 {ECO:0000303 PubMed:27667664, ECO:0000312 HGNC:HGNC:28437}
Dilution	WB=1:500-2000
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

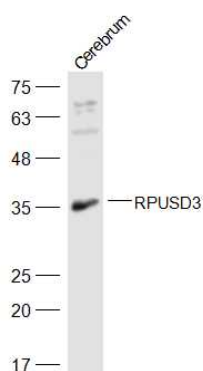
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Function	Catalyzes uridine to pseudouridine isomerization (pseudouridylation) of specific mitochondrial mRNAs (mt-mRNAs), a post- transcriptional modification necessary for their translation. Acts at position 390 in COXI mt-mRNA and at position 697-699 in mitochondrial COXIII mt-mRNA (PubMed: 27974379). As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPU3D3, RPU3D4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and may play a role in mitochondrial ribosome biogenesis (PubMed: 27667664).
Cellular Location	Mitochondrion matrix. Note=Localizes to mitochondrial RNA granules, platforms for post-transcriptional RNA modification and ribosome assembly.

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Images



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-RPU3D3 (AP57271) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 38 kD
Observed band size: 38 kD

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