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TRUB2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20247c

Product Information

Application	WB, E
Primary Accession	O95900
Other Accession	NP_056494.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB42695
Calculated MW	36694
Antigen Region	116-144

Additional Information

Gene ID	26995
Other Names	Probable tRNA pseudouridine synthase 2, 5499-, TRUB2
Target/Specificity	This TRUB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 116-144 amino acids from the Central region of human TRUB2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TRUB2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TRUB2 {ECO:0000303|PubMed:12736709, ECO:0000312|HGNC:HGNC:17170}
Function	Minor enzyme contributing to the isomerization of uridine to pseudouridine (pseudouridylation) of specific mitochondrial mRNAs (mt- mRNAs) such as

COXI and COXIII mt-mRNAs (PubMed:27974379, PubMed:31477916). As a component of a functional protein-RNA module, consisting of RCC1L, NGRN, RPUSD3, RPUSD4, TRUB2, FASTKD2 and 16S mitochondrial ribosomal RNA (16S mt-rRNA), controls 16S mt-rRNA abundance and is required for intra-mitochondrial translation (PubMed:27667664). Also catalyzes pseudouridylation of some tRNAs, including synthesis of pseudouridine(55) from uracil-55, in the psi GC loop of a subset of tRNAs (PubMed:33023933).

Cellular Location Mitochondrion matrix Note=Localizes to mitochondrial RNA granules, platforms for post- transcriptional RNA modification and ribosome assembly

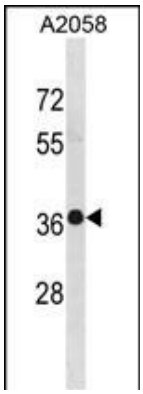
Background

Pseudouridine is an abundant component of rRNAs and tRNAs and is enzymatically generated by isomerization of uridine by pseudouridine synthase (Zucchini et al., 2003 [PubMed 12736709]).

References

Humphray, S.J., et al. Nature 429(6990):369-374(2004)
Zucchini, C., et al. Int. J. Mol. Med. 11(6):697-704(2003)

Images



TRUB2 Antibody (Center) (Cat. #AP20247c) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the TRUB2 antibody detected the TRUB2 protein (arrow).

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