

TRUB2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20247c**Specification**

TRUB2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O95900
Other Accession	NP_056494.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36694
Antigen Region	116-144

TRUB2 Antibody (Center) - 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

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.

TRUB2 Antibody (Center) - 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

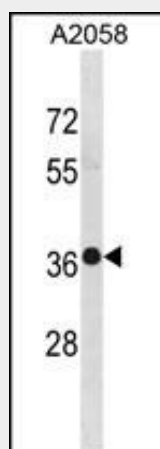
Mitochondrion matrix Note=Localizes to mitochondrial RNA granules, platforms for post-transcriptional RNA modification and ribosome assembly

TRUB2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TRUB2 Antibody (Center) - 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).

TRUB2 Antibody (Center) - 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]).

TRUB2 Antibody (Center) - 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)