

TRUB1 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP12789c**Specification**

TRUB1 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8WWH5](#)**TRUB1 Antibody (Center) Blocking peptide - Additional Information**

Gene ID 142940

Other Names

Probable tRNA pseudouridine synthase 1, 5499-, TRUB1, PUS4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRUB1 Antibody (Center) Blocking peptide - Protein Information**Name** TRUB1 {ECO:0000303|PubMed:12736709, ECO:0000312|HGNC:HGNC:16060}**Function**

Pseudouridine synthase that catalyzes pseudouridylation of mRNAs and tRNAs (PubMed:28073919, PubMed:31477916, PubMed:32926445). Mediates pseudouridylation of mRNAs with the consensus sequence 5'- GUUCNANNC-3', harboring a stem-loop structure (PubMed:28073919, PubMed:31477916). Constitutes the major pseudouridine synthase acting on mRNAs (PubMed:28073919). 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:32926445, PubMed:33023933). Promotes the processing of pri-let-7 microRNAs (pri-miRNAs) independently of its RNA pseudouridylate synthase activity (PubMed:32926445). Acts by binding to the stem-loop structure on pri- let-7, preventing LIN28-binding (LIN28A and/or LIN28B), thereby enhancing the interaction between pri-let-7 and the microprocessor DGCR8, which mediates miRNA maturation (PubMed:32926445).

Cellular Location

Nucleus. Cytoplasm, cytosol. Note=Catalyzes pseudouridylation of mRNAs in the nucleus.

Tissue Location

Highly expressed in heart, skeletal muscle and liver. Expressed at lower levels in lung, small intestine, kidney and spleen.

TRUB1 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

TRUB1 Antibody (Center) Blocking peptide - Images**TRUB1 Antibody (Center) Blocking peptide - 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 [PubMed12736709]).

TRUB1 Antibody (Center) Blocking peptide - References

Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006) Deloukas, P., et al. Nature 429(6990):375-381(2004) Zucchini, C., et al. Int. J. Mol. Med. 11(6):697-704(2003)