10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DIMT1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1945b

Specification

DIMT1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9UNQ2

DIMT1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 27292

Other Names
Probable dimethyladenosine transferase, DIM1 dimethyladenosine transferase 1 homolog, DIM1 dimethyladenosine transferase 1-like, Probable 18S rRNA (adenine(1779)-N(6)/adenine(1780)-N(6))-dimethyltransferase, Probable 18S rRNA dimethylase, Probable S-adenosylmethionine-6-N', N'-adenosyl(rRNA) dimethyltransferase, DIMT1, DIMT1L

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1945b was selected from the C-term region of human DIMT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

DIMT1 Antibody (C-term) Blocking Peptide - Protein Information

Name DIMT1 (HGNC:30217)

Synonyms DIMT1L

Function
Specifically dimethylates two adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 18S rRNA in the 40S particle (PubMed:25851604). Involved in the pre-rRNA processing steps leading to small-subunit rRNA production independently of its RNA-modifying catalytic activity (PubMed:25851604). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the

nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797).

Cellular Location
Nucleus, nucleoplasm. Nucleus, nucleolus

DIMT1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

DIMT1 Antibody (C-term) Blocking Peptide - Images

DIMT1 Antibody (C-term) Blocking Peptide - Background

DIMT1 specifically dimethylates two adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 18S rRNA in the 40S particle.

DIMT1 Antibody (C-term) Blocking Peptide - References

Stanchi, F., et al., Yeast 18(1):69-80 (2001).