

PNPT1 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP17563c

Specification

PNPT1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession <u>Q8TCS8</u>

PNPT1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 87178

Other Names

Polyribonucleotide nucleotidyltransferase 1, mitochondrial, 3'-5' RNA exonuclease OLD35, PNPase old-35, Polynucleotide phosphorylase 1, PNPase 1, Polynucleotide phosphorylase-like protein, PNPT1. PNPASE

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.

PNPT1 Antibody (Center) Blocking Peptide - Protein Information

Name PNPT1 (HGNC:23166)

Synonyms PNPASE

Function

RNA-binding protein implicated in numerous RNA metabolic processes. Catalyzes the phosphorolysis of single-stranded polyribonucleotides processively in the 3'-to-5' direction. Mitochondrial intermembrane factor with RNA-processing exoribonulease activity. Component of the mitochondrial degradosome (mtEXO) complex, that degrades 3' overhang double-stranded RNA with a 3'-to-5' directionality in an ATP-dependent manner. Involved in the degradation of non-coding mitochondrial transcripts (MT-ncRNA) and tRNA-like molecules (PubMed:29967381<a href="http://www.uniprot.org/citations/29967381" target="_blank"<a href="http://www.uniprot.org/citations/29967381" target="_blank"<a href="http://www.uniprot.org/citations/29967381" target="_blank"<a href="http://www.uniprot.org/citations/29967381" target="_blank"<a href="http://www.uniprot.org/citations/29967381" target="_blank"<a href="http://www.uniprot.org/citatio



stability of specific mature miRNAs in melanoma cells; specifically and selectively degrades miR-221, preferentially. Also plays a role in RNA cell surveillance by cleaning up oxidized RNAs. Binds to the RNA subunit of ribonuclease P, MRP RNA and miR-221 microRNA.

Cellular Location

Cytoplasm. Mitochondrion matrix. Mitochondrion intermembrane space; Peripheral membrane protein

PNPT1 Antibody (Center) Blocking Peptide - Protocols

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

Blocking Peptides

PNPT1 Antibody (Center) Blocking Peptide - Images

PNPT1 Antibody (Center) Blocking Peptide - Background

PNPT1 is a subunit of the exosome complex, which is involved in 3-prime-to-5-prime exoribonuclease activity for RNAprocessing and degradation (Raijmakers et al., 2002 [PubMed12419256]).

PNPT1 Antibody (Center) Blocking Peptide - References

Wang, G., et al. Cell 142(3):456-467(2010)Das, S.K., et al. Proc. Natl. Acad. Sci. U.S.A. 107(26):11948-11953(2010)Zhao, J., et al. BMC Med. Genet. 11, 96 (2010):O'Doherty, C., et al. Pharmacogenomics 10(7):1177-1186(2009)Luczynski, W., et al. Neoplasma 56(5):428-434(2009)