

**TPP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17047a****Specification**

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**TPP1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O14773](#)**TPP1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1200**Other Names**

Tripeptidyl-peptidase 1, TPP-1, Cell growth-inhibiting gene 1 protein, Lysosomal pepstatin-insensitive protease, LPIC, Tripeptidyl aminopeptidase, Tripeptidyl-peptidase I, TPP-I, TPP1, CLN2

**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.

**TPP1 Antibody (N-term) Blocking Peptide - Protein Information****Name** TPP1**Synonyms** CLN2**Function**

Lysosomal serine protease with tripeptidyl-peptidase I activity (PubMed:<a href="http://www.uniprot.org/citations/11054422" target="\_blank">11054422</a>, PubMed:<a href="http://www.uniprot.org/citations/19038966" target="\_blank">19038966</a>, PubMed:<a href="http://www.uniprot.org/citations/19038967" target="\_blank">19038967</a>). May act as a non-specific lysosomal peptidase which generates tripeptides from the breakdown products produced by lysosomal proteinases (PubMed:<a href="http://www.uniprot.org/citations/11054422" target="\_blank">11054422</a>, PubMed:<a href="http://www.uniprot.org/citations/19038966" target="\_blank">19038966</a>, PubMed:<a href="http://www.uniprot.org/citations/19038967" target="\_blank">19038967</a>). Requires substrates with an unsubstituted N-terminus (PubMed:<a href="http://www.uniprot.org/citations/19038966" target="\_blank">19038966</a>).

**Cellular Location**

Lysosome. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV

**Tissue Location**

Detected in all tissues examined with highest levels in heart and placenta and relatively similar levels in other tissues

**TPP1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**TPP1 Antibody (N-term) Blocking Peptide - Images****TPP1 Antibody (N-term) Blocking Peptide - Background**

This gene encodes a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity. It is synthesized as a catalytically-inactive enzyme which is activated and auto-proteolyzed upon acidification. Mutations in this gene result in late-infantile neuronal ceroid lipofuscinosis, which is associated with the failure to degrade specific neuropeptides and a subunit of ATP synthase in the lysosome.

**TPP1 Antibody (N-term) Blocking Peptide - References**

Souweidane, M.M., et al. J Neurosurg Pediatr 6(2):115-122(2010) Walus, M., et al. Hum. Mutat. 31(6):710-721(2010) Latrick, C.M., et al. EMBO J. 29(5):924-933(2010) Kuizon, S., et al. PLoS ONE 5(8), E11929 (2010) :Goldberg-Stern, H., et al. Pediatr. Neurol. 41(4):297-300(2009)