

# TPP1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17047a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O14773</a>
<b>Other Accession</b>	<a href="#">Q60HH1</a> , <a href="#">NP_000382.3</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB36843
<b>Calculated MW</b>	61248
<b>Antigen Region</b>	6-34

## Additional Information

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<b>Gene ID</b>	1200
<b>Other Names</b>	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
<b>Target/Specificity</b>	This TPP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-34 amino acids from the N-terminal region of human TPP1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	TPP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TPP1
<b>Synonyms</b>	CLN2

<b>Function</b>	Lysosomal serine protease with tripeptidyl-peptidase I activity (PubMed: <a href="#">11054422</a> , PubMed: <a href="#">19038966</a> , PubMed: <a href="#">19038967</a> ). May act as a non-specific lysosomal peptidase which generates tripeptides from the breakdown products produced by lysosomal proteinases (PubMed: <a href="#">11054422</a> , PubMed: <a href="#">19038966</a> , PubMed: <a href="#">19038967</a> ). Requires substrates with an unsubstituted N-terminus (PubMed: <a href="#">19038966</a> ).
<b>Cellular Location</b>	Lysosome. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV
<b>Tissue Location</b>	Detected in all tissues examined with highest levels in heart and placenta and relatively similar levels in other tissues

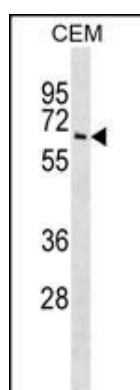
## Background

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.

## 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)

## Images



TPP1 Antibody (N-term) (Cat. #AP17047a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the TPP1 antibody detected the TPP1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.