

## ARG42649 anti-TPP1 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes TPP1
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TPP1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 227-261 of Human TPP1. (CAQFLEQYFHDSDLAQFMRLFGGNFAHQASVARVV)
Conjugation	Un-conjugated
Alternate Names	EC 3.4.14.9; TPP-1; Tripeptidyl-peptidase I; GIG1; Lysosomal pepstatin-insensitive protease; SCAR7; Tripeptidyl aminopeptidase; Tripeptidyl-peptidase 1; CLN2; LPIC; Cell growth-inhibiting gene 1 protein; TPP-I

### Application Instructions

Application table	Application	Dilution
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	
Observed Size	~ 61 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

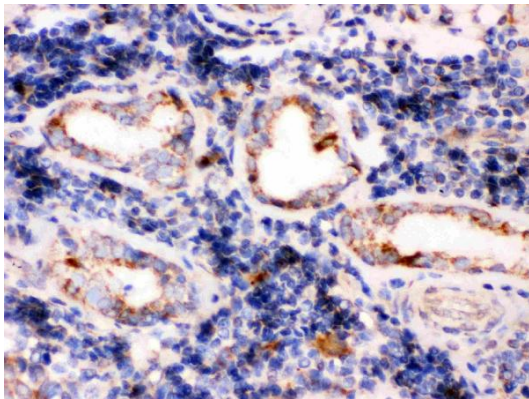
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

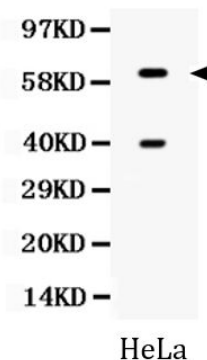
Gene Symbol	TPP1
Gene Full Name	tripeptidyl peptidase I
Background	This gene encodes a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity. It is synthesized as a catalytically-inactive 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. [provided by RefSeq, Jul 2008]
Function	Lysosomal serine protease with tripeptidyl-peptidase I activity (PubMed:11054422, PubMed:19038966, PubMed:19038967). May act as a non-specific lysosomal peptidase which generates tripeptides from the breakdown products produced by lysosomal proteinases (PubMed:11054422, PubMed:19038966, PubMed:19038967). Requires substrates with an unsubstituted N-terminus (PubMed:19038966). [UniProt]
Calculated Mw	61 kDa
PTM	Activated by autocatalytic proteolytical processing upon acidification. N-glycosylation is required for processing and activity. [UniProt]
Cellular Localization	Lysosome. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. [UniProt]

## Images



ARG42649 anti-TPP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue stained with ARG42649 anti-TPP1 antibody at 1  $\mu$ g/ml dilution.



ARG42649 anti-TPP1 antibody WB image

Western blot: HeLa whole cell lysate stained with ARG42649 anti-TPP1 antibody at 0.5  $\mu$ g/ml dilution.