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

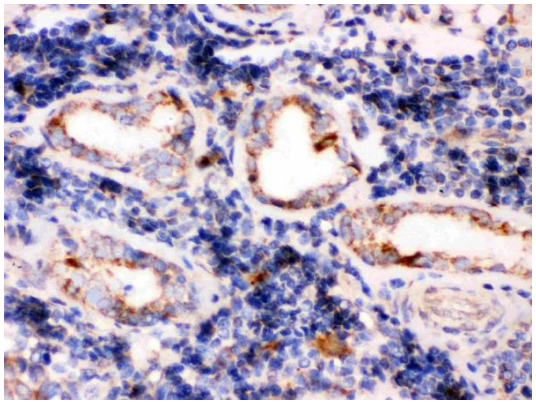
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term 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

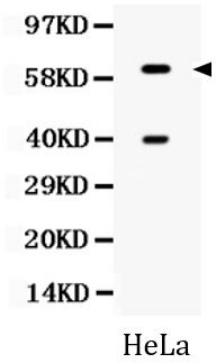
Gene Symbol	TPP1
Gene Full Name	tripeptidyl peptidase I
Background	This gene encodes a member of the sedolisin family of serine proteases. The protease functions in the lysosome to cleave N-terminal tripeptides from substrates, and has weaker endopeptidase activity. It is synthesized as a catalytically-inactive 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 µg/ml dilution.



ARG42649 anti-TPP1 antibody WB image

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