

Rabbit TPP1 Polyclonal Antibody | anti-TPP1 antibody

TPP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327124	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

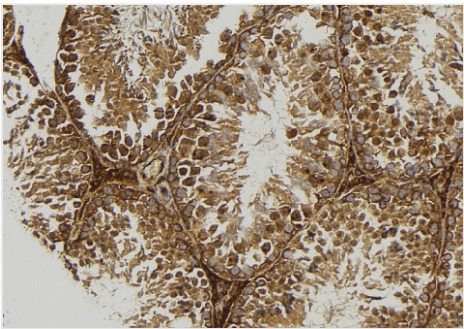
PRODUCT SYNONYMS

TPP1; Polyclonal Antibody; TPP1 Antibody; Cell growth inhibiting gene 1 protein; Cell growth-inhibiting gene 1 protein; Ceroid lipofuscinosis neuronal 2; Ceroid lipofuscinosis neuronal 2 late infantile (Jansky Bielschowsky disease); Ceroid lipofuscinosis neuronal 2 late infantile; CLN 2; CLN2; GIG 1; GIG1; Growth inhibiting protein 1; LPIC; Lysosomal pepstatin insensitive protease; Lysosomal pepstatin-insensitive protease; MGC21297; TPP 1; TPP I; TPP-1; TPP-I; Tpp1; TPP1_HUMAN; TPP1; Tripeptidyl aminopeptidase; Tripeptidyl peptidase I; Tripeptidyl-peptidase 1; Tripeptidyl-peptidase I; anti-TPP1 antibody

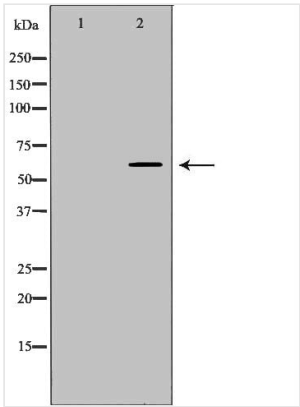
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TPP1 antibody detects endogenous levels of total TPP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	563
Applicable Applications for anti-TPP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TPP1
Subcellular Location	Lysosome. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.
Tissue Specificity	Detected in all tissues examined with highest levels in heart and placenta and relatively similar levels in other tissues.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (92%), Bovine (92%), Horse (83%), Sheep (92%), Rabbit (83%), Dog (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA327124 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using TPP1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-TPP1 antibody

Description: 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.

Function: Lysosomal serine protease with tripeptidyl-peptidase I activity. May act as a non-specific lysosomal peptidase which generates tripeptides from the breakdown products produced by lysosomal proteinases. Requires substrates with an unsubstituted N-terminus (By similarity).

Subunit Structure: Monomer (PubMed:19038967). Interacts with CLN5 (PubMed:19941651).

Post-translational Modifications: Activated by autocatalytic proteolytical processing upon acidification. N-glycosylation is required for processing and activity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5729770
NCBI GeneID	1200
NCBI Accession #	NP_000382.3
NCBI GenBank Nucleotide #	NM_000391.3
UniProt Accession #	O14773; Q53HT1; Q5JAK6; Q6UX56; Q71JP6; Q96C37
Molecular Weight	Observed: 61 kDa Predicted: 62 kDa
NCBI Official Full Name	tripeptidyl-peptidase 1 preproprotein
NCBI Official Synonym Full Names	tripeptidyl peptidase 1
NCBI Official Symbol	TPP1
NCBI Official Synonym Symbols	CLN2; GIG1; LPIC; SCAR7; TPP-1
NCBI Protein Information	tripeptidyl-peptidase 1
UniProt Protein Name	Tripeptidyl-peptidase 1
UniProt Gene Name	TPP1
UniProt Synonym Gene Names	CLN2; TPP-1; LPIC; TPP-I

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tpp1-antibody-immunohistochemistry-western-blot-elisa/327124>