

Goat Anti-CLN2 / TPP1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1253a**Specification**

Goat Anti-CLN2 / TPP1 Antibody - Product Information

Application	WB, E
Primary Accession	O14773
Other Accession	NP_000382 , 1200 , 12751 (mouse)
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	61248

Goat Anti-CLN2 / TPP1 Antibody - Additional Information**Gene ID** 1200**Other Names**

Tripeptidyl-peptidase 1, TPP-1, 3.4.14.9, Cell growth-inhibiting gene 1 protein, Lysosomal pepstatin-insensitive protease, LPIC, Tripeptidyl aminopeptidase, Tripeptidyl-peptidase I, TPP-I, TPP1, CLN2

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-CLN2 / TPP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CLN2 / TPP1 Antibody - Protein Information**Name** TPP1**Synonyms** CLN2

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).

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

Goat Anti-CLN2 / TPP1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-CLN2 / TPP1 Antibody - Images

AF1253a (0.3 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by

chemiluminescence.

Goat Anti-CLN2 / TPP1 Antibody - 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.

Goat Anti-CLN2 / TPP1 Antibody - References

Gene therapy for late infantile neuronal ceroid lipofuscinosis: neurosurgical considerations. Souweidane MM, et al. J Neurosurg Pediatr, 2010 Aug. PMID 20672930.
POT1-TPP1 enhances telomerase processivity by slowing primer dissociation and aiding translocation. Latrick CM, et al. EMBO J, 2010 Mar 3. PMID 20094033.
Late infantile neuronal ceroid lipofuscinosis: a new mutation in Arabs. Goldberg-Stern H, et al. Pediatr Neurol, 2009 Oct. PMID 19748052.
Lysosomal serine protease CLN2 regulates tumor necrosis factor-alpha-mediated apoptosis in a Bid-dependent manner. Autefage H, et al. J Biol Chem, 2009 Apr 24. PMID 19246452.
Mutations in CLN7/MFSD8 are a common cause of variant late-infantile neuronal ceroid lipofuscinosis. Kousi M, et al. Brain, 2009 Mar. PMID 19201763.