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Tel: 858.875.1900 Fax: 858.875.1999

Anti-TPP1 Picoband Antibody

Catalog # ABO12585

Specification

Anti-TPP1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O14773
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Tripeptidyl-peptidase 1(TPP1) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TPP1 Picoband 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

Calculated MW
61248 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
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.

Protein Name
Tripeptidyl-peptidase 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human TPP1 (227-261aa CAQFLEQYFHDSDLAQFMRLFGGNFAHQASVARVV), different from the related mouse sequence by six amino acids, and from the related rat sequence by five amino acids.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-TPP1 Picoband 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

Anti-TPP1 Picoband 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 Cytomety
- Cell Culture

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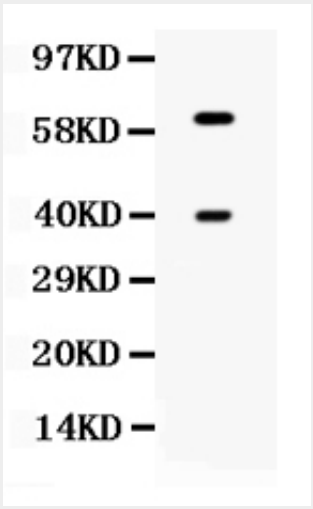
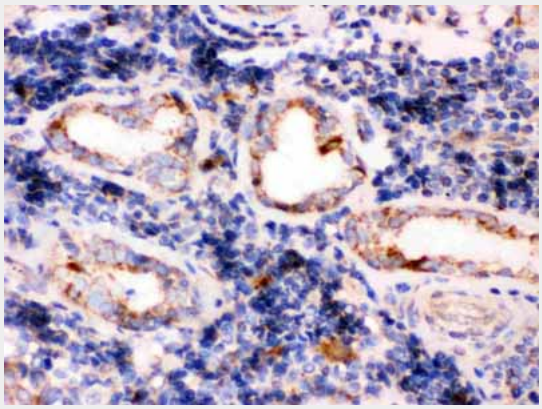
Anti-TPP1 Picoband Antibody - Images



Western blot analysis of TPP1 expression in HELA whole cell lysates (lane 1). TPP1 at 61KD, 39KD was detected using rabbit anti- TPP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12585) at0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .



TPP1 was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-TPP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO12585) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-TPP1 Picoband Antibody - Background

Tripeptidyl-peptidase 1, also known as Lysosomal pepstatin-insensitive protease, is an enzyme that in humans is encoded by the TPP1 gene. 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.