Anti-TPP1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013603

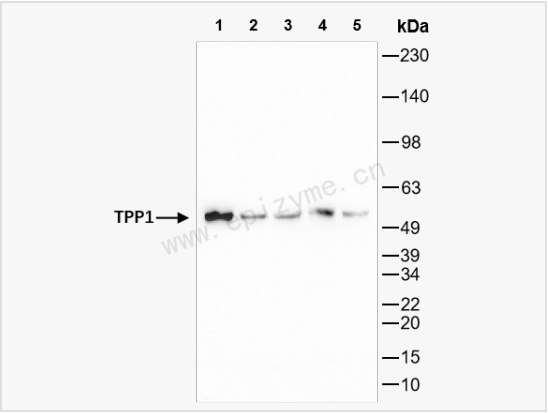
Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	62K74M84
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human TPP1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-TPP1 Rabbit mAb [62K74M84] is for research use only and not for use in diagnostic or therapeutic procedures.

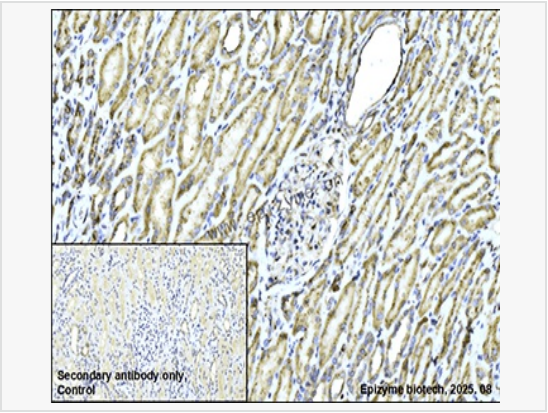
Protein Information

Synonyms	CLN2; GIG1; UNQ267/PRO304; TPP1; Tripeptidyl-peptidase 1; TPP-1; Cell growth-inhibiting gene 1 protein; Lysosomal pepstatin-insensitive protease; Tripeptidyl aminopeptidase; Tripeptidyl-peptidase I; LPIC; TPP-I.
Calculated MW	Calculated MW: 61,35 kDa; Observed MW: 61,48 kDa
Uniprot ID	O14773
Gene ID	1200
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]
Cellular Location	Lysosome.Melanosome.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.

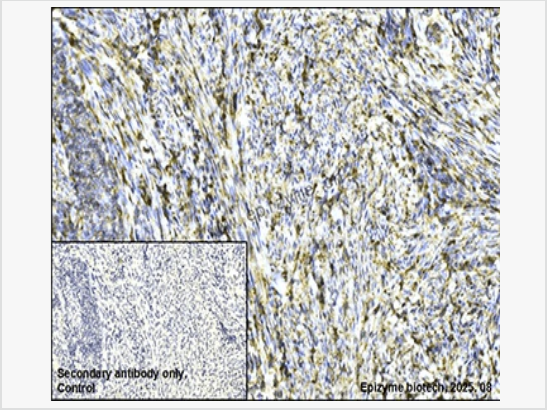
Validation Images



Western Blot - Anti-TPP1 Rabbit mAb [62K74M84]
All lanes: R013603 at 1:1,000 dilution
Lane 1: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: 293T (Human embryonic kidney cell) whole cell lysates
Lane 4: K562 (Human chronic myeloid leukemia cell) whole cell lysates
Lane 5: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 61,35 kDa
Observed band size: 61,48 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-TPP1 Rabbit mAb [62K74M84]
Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013603 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-TPP1 Rabbit mAb [62K74M84]
Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013603 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.