

For Research Use Only

# TPPII Polyclonal antibody

Catalog Number: 14120-1-AP

Featured Product

5 Publications



## Basic Information

**Catalog Number:**

14120-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG5296

**GenBank Accession Number:**

BC039905

**GeneID (NCBI):**

7174

**UNIPROT ID:**

P29144

**Full Name:**

tripeptidyl peptidase II

**Calculated MW:**

1249 aa, 138 kDa

**Observed MW:**

135-140 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

IF, WB

**Species Specificity:**

human

**Cited Species:**

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : Jurkat cells, Jurkat

IP : Jurkat cells,

IHC : human gliomas tissue,

IF : HepG2 cells,

## Background Information

TPPII (Tripeptidyl-peptidase 2) is an evolutionary conserved serine peptidase of the subtilisin family that removes tripeptides from the free NH<sub>2</sub> terminus of oligopeptides. The 138-kDa TPP2 polypeptide forms large oligomeric complexes of >1,000 kDa that are detected in the cytoplasm of all cell types. In addition, a membrane associated TPP 2 isoform is present in most cells (PMID:15735022).

## Notable Publications

Author	Pubmed ID	Journal	Application
Stefan Duensing	21647238	Genes Cancer	WB, IF
Chia-Li Liao	35466366	J Cell Sci	WB
Jarmila Nahálková	26169984	Mol Cell Biochem	IF

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

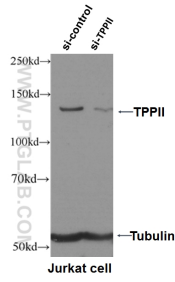
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

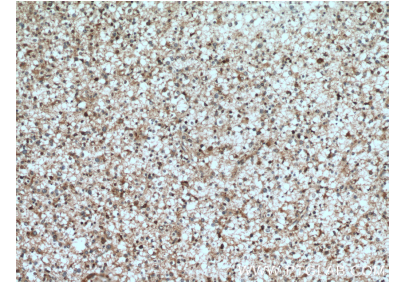
**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data

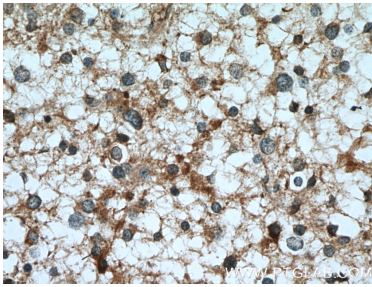


WB result of TPPII antibody (14120-1-AP, 1:1000) with si-control and si-TPPII transfected Jurkat cells.

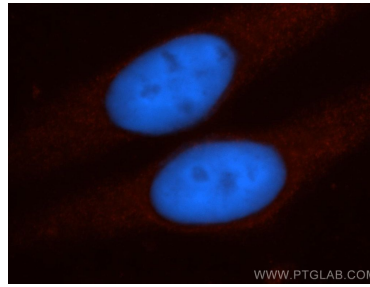
Jurkat cells were subjected to SDS PAGE followed by western blot with 14120-1-AP (TPPII antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



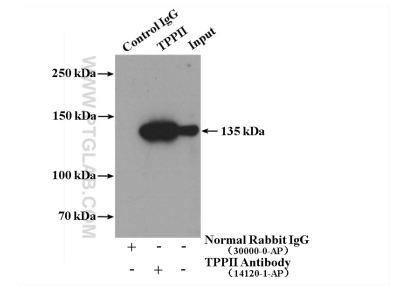
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14120-1-AP (TPPII antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



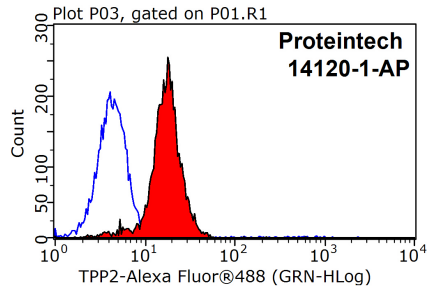
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14120-1-AP (TPPII antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells, using TPP2 antibody 14120-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-TPPII (IP:14120-1-AP, 4ug; Detection:66017-1-Ig, 1:500) with Jurkat cells lysate 2400ug.



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug TPPII antibody (14120-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.