

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/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IF

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/ICC : HepG2 cells,

Background Information

TPPII (Tripeptidyl-peptidase 2) is an evolutionary conserved serine peptidase of the subtilisin family that removes tripeptides from the free NH₂ 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

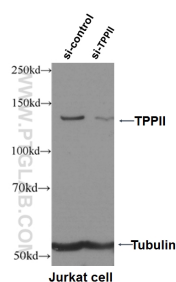
For technical support and original validation data for this product please contact:

T: 4006900926

E: Proteintech-CN@ptglab.comW: ptgcn.com

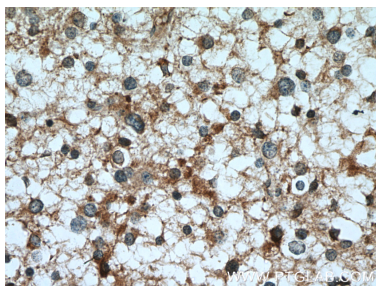
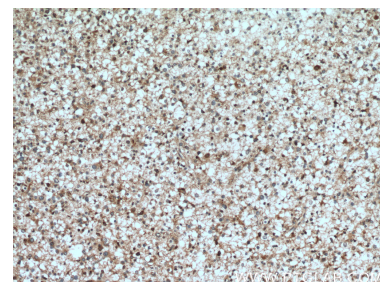
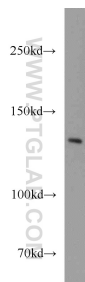
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Selected Validation Data

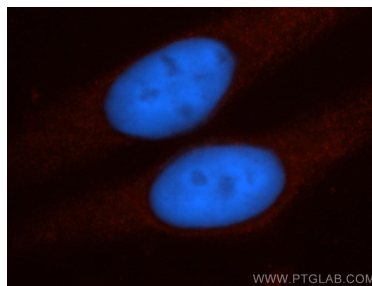


WB result of TPPII antibody (14120-1-AP, 1:1000) with si-control and si-TPPII transfected Jurkat cells.

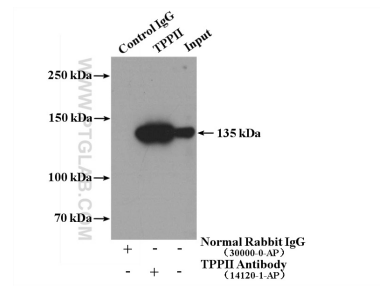
Jurkat cells were subjected to SDS PAGE followed by western blot with 14120-1-AP (TPPII antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



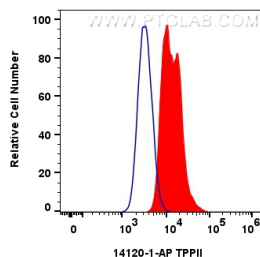
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 14120-1-AP (TPPII antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.



1×10^6 HepG2 cells were intracellularly stained with 0.4 ug TPPII Polyclonal antibody (14120-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).