

For Research Use Only

# TPPII Monoclonal antibody

Catalog Number: 66017-1-Ig

Featured Product

2 Publications



## Basic Information

**Catalog Number:**

66017-1-Ig

**Size:**

2000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2b

**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 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

5H6F11

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:20-1:200

IF 1:10-1:100

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, WB, ELISA

**Cited Applications:**

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 : HeLa cells, Jurkat

IHC : human testis tissue,

IF : HeLa cells, MCF-7 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
Jens Dinter	25230751	J Immunol	WB
Xinyuan Lei	35794100	Nat Commun	WB

## 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:

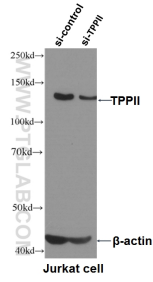
T: 4006900926

E: Proteintech-CN@ptglab.com

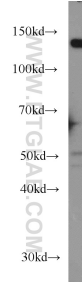
W: ptgcn.com

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

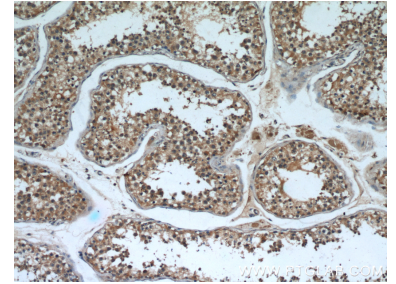
## Selected Validation Data



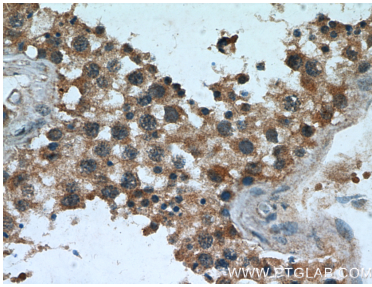
WB result of TPPII antibody (66017-1-Ig, 1:4000) with si-control and si-TPPII transfected Jurkat cells.



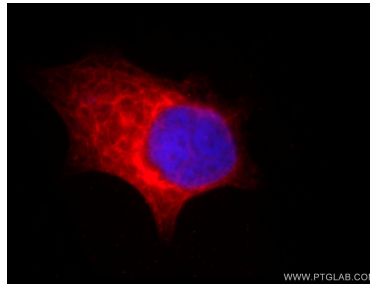
HeLa cells were subjected to SDS PAGE followed by western blot with 66017-1-Ig (TPPII antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



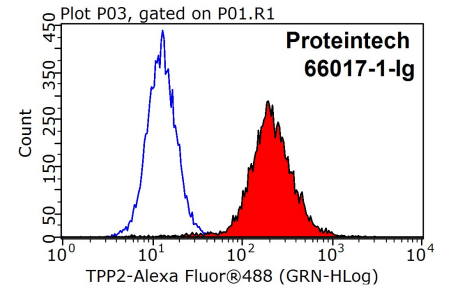
Immunohistochemical analysis of paraffin-embedded human testis using 66017-1-Ig (TPPII antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis using 66017-1-Ig (TPPII antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells, using TPP2 antibody 66017-1-Ig at 1:25 dilution and Rhodamine-labeled goat anti-mouse IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug TPPII antibody (66017-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.