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# TMP21 Polyclonal antibody

Catalog Number:15199-1-AP Featured Product 16 Publications

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## Basic Information

Catalog Number:
15199-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7347

GenBank Accession Number:
BC001825

GeneID (NCBI):
10972

UNIPROT ID:
P49755

Full Name:
transmembrane emp24-like trafficking protein 10 (yeast)

Calculated MW:
25 kDa

Observed MW:
21 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:16000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:500-1:2000
IF-P: 1:50-1:500

## Applications

Tested Applications:
WB, IHC, IF-P, IP, ELISA

Cited Applications:
WB, IHC, IF, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse

***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 : BxPC-3 cells, HEK-293T cells, HepG2 cells, PC-3 cells, Raji cells, mouse pancreas tissue, rat pancreas tissue, Neuro-2a cells, U-87 MG cells, NIH/3T3 cells

IP : BxPC-3 cells,

IHC : mouse brain tissue, human colon cancer tissue, human pancreas tissue

IF-P : mouse brain tissue,

## Background Information

TMP21 (also named TMED10/p23) belongs to the p24 family of type I transmembrane proteins. It resides in ER-Golgi compartments and mediates vesicular cargo transport. TMP21 modulates γ -secretase activity and amyloid precursor protein processing, which participates in amyloid-β generation linked to neurodegeneration (PMID:22299712).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Shulin Li | 34561617 | Cell Res | WB |
| Jiaxin Sun | 28515233 | J Cell Sci | CoIP |
| Hak Park | 35748162 | Adv Sci (Weinh) | WB |

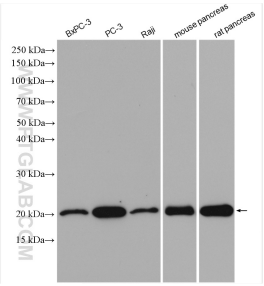
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

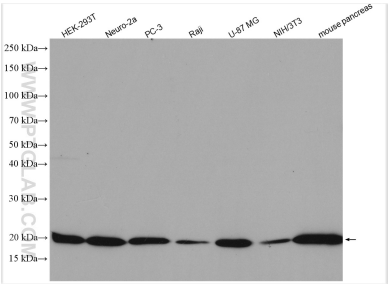
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

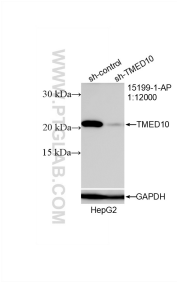
## Selected Validation Data



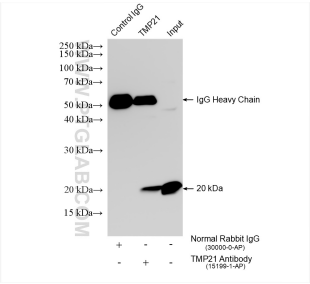

Various lysates were subjected to SDS PAGE followed by western blot with 15199-1-AP (TMP21 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



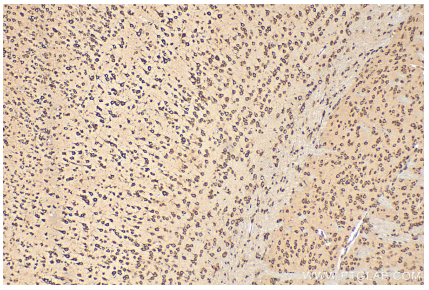

Various lysates were subjected to SDS PAGE followed by western blot with 15199-1-AP (TMP21 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



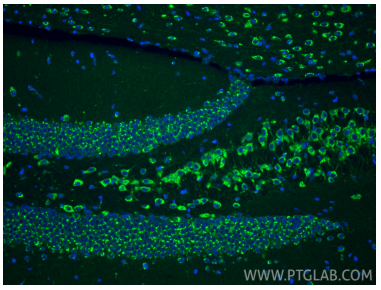

WB result of TMP21 antibody (15199-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMP21 transfected HepG2 cells.




IP result of anti-TMP21 (IP:15199-1-AP, 4ug; Detection:15199-1-AP 1:3000) with BxPC-3 cells lysate 2080 ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15199-1-AP (TMP21 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using TMP21 antibody (15199-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).