

## TMEM175 Polyclonal antibody

Catalog Number: 19925-1-AP

Featured Product

13 Publications

## Basic Information

## Catalog Number:

19925-1-AP

## Size:

600 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG13890

## GenBank Accession Number:

BC005158

## GeneID (NCBI):

84286

## UNIPROT ID:

Q9BSA9

## Full Name:

transmembrane protein 175

## Calculated MW:

504 aa, 56 kDa

## Observed MW:

41-45 kDa, 54-60 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:3000

IHC 1:50-1:500

## Applications

## Tested Applications:

WB, IHC, ELISA

## Cited Applications:

WB, IP, CoIP, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse, rat, monkey

**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, HEK-293 cells, SH-SY5Y cells, HepG2 cells

IHC : mouse brain tissue,

## Background Information

TMEM175 has two repeats of 6-transmembrane-spanning segments and has no GYG K<sup>+</sup> channel sequence signature-containing, pore-forming P loop. Lysosomes lacking TMEM175 exhibit no K<sup>+</sup> conductance, have a markedly depolarized  $\Delta\psi$  and little sensitivity to changes in [K<sup>+</sup>], and have compromised luminal pH stability and abnormal fusion with autophagosomes during autophagy. TMEM175 comprises a K<sup>+</sup> channel that underlies the molecular mechanism of lysosomal K<sup>+</sup> permeability. It has two isoforms with MW 41-45 kDa and 54-60 kDa. For optimal WB detection with this antibody, we recommend avoiding boiling the sample after lysis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lynne Krohn	31658403	Ann Neurol	WB
Sarah Jinn	31261387	Hum Mol Genet	WB
Jinhong Wie	33505021	Nature	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

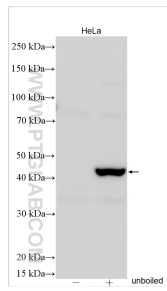
For technical support and original validation data for this product please contact:

T: 4006900926

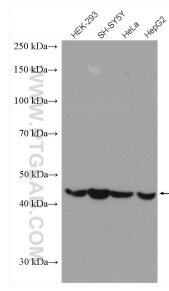
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

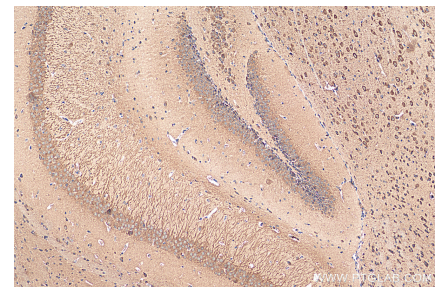
## Selected Validation Data



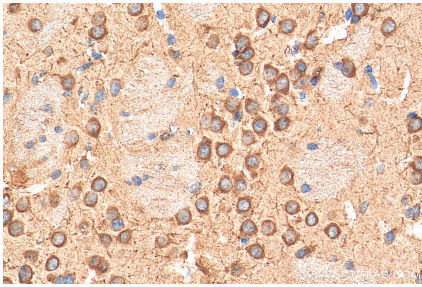
Boiled and unboiled HeLa cell lysates were subjected to SDS PAGE followed by western blot with 19925-1-AP (TMEM175 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 19925-1-AP (TMEM175 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19925-1-AP (TMEM175 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 mouse brain tissue slide using 19925-1-AP (TMEM175 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).