

For Research Use Only

TMEM175 Monoclonal antibody

Catalog Number: 68172-1-Ig **Featured Product**



Basic Information

Catalog Number:

68172-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

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:

55-60 kDa

Purification Method:

Protein A purification

CloneNo.:

1E7E1

Recommended Dilutions:

WB 1:5000-1:50000

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

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

Positive Controls:

WB : LNCaP cells, pig liver tissue, rabbit liver tissue, HepG2 cells, mouse brain tissue, rat liver tissue, HeLa cells, HEK-293 cells, Jurkat cells

IP : mouse brain tissue,

Background Information

TMEM175 has two repeats of 6-transmembrane-spanning segments and has no GYG K⁺ channel sequence signature-containing, pore-forming P loop. Lysosomes lacking TMEM175 exhibit no K⁺ conductance, have a markedly depolarized $\Delta \Psi$ and little sensitivity to changes in [K⁺], and have compromised luminal pH stability and abnormal fusion with autophagosomes during autophagy. TMEM175 comprises a K⁺ channel that underlies the molecular mechanism of lysosomal K⁺ permeability.

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:

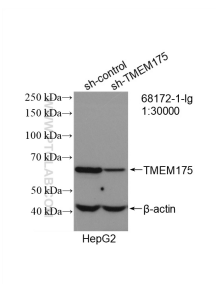
T: 4006900926

E: Proteintech-CN@ptglab.com

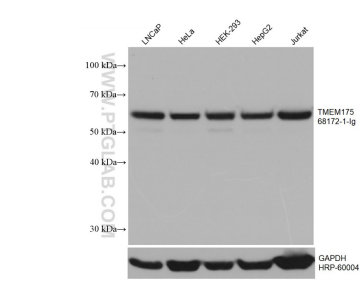
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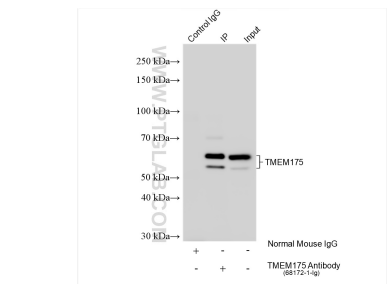
Selected Validation Data



WB result of TMEM175 antibody (68172-1-Ig; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM175 transfected HepG2 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 68172-1-Ig (TMEM175 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



IP result of anti-TMEM175 (IP:68172-1-Ig, 4ug; Detection:68172-1-Ig 1:4000) with mouse brain tissue lysate 1840 ug.