

For Research Use Only

TMEM175 Monoclonal antibody

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



Basic Information

Catalog Number: 68172-1-Ig	GenBank Accession Number: BC005158	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 84286	CloneNo.: 1E7E1
Source: Mouse	UNIPROT ID: Q9BSA9	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG1	Full Name: transmembrane protein 175	
Immunogen Catalog Number: AG13890	Calculated MW: 504 aa, 56 kDa	
	Observed MW: 55-60 kDa	

Applications

Tested Applications: WB, IP, ELISA	Positive Controls:
Species Specificity: human, mouse, rat, pig, rabbit	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

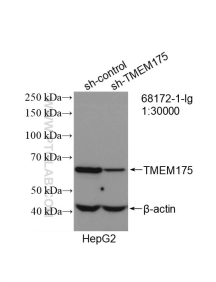
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

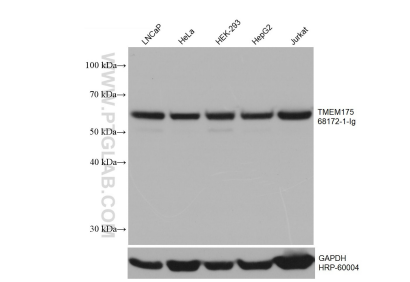
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

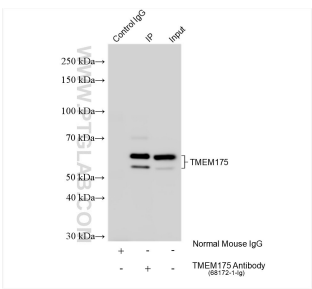
Selected Validation Data



WB result of 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.