For Research Use Only

TMEM175 Recombinant antibody, PBS Only

Catalog Number:84554-1-PBS Featured Product

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
84554-1-PBS

Concentration:
1 mg/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:
56 kDa

Purification Method:
Protein A purfication

CloneNo.:
241567B9

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

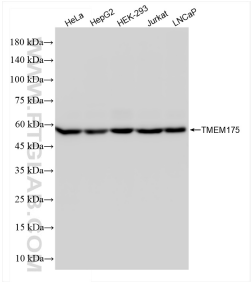
TMEM175 has two repeats of 6-transmembrane-spanning segments and has no GYG K+ channel sequence signature-containing, pore-forming P loop. Lysosomes lacking TMEM175 exhibit no K+conductance, have a markedly depolarized $\Delta\Psi$ and little sensitivity to changes in [K+], and have compromised luminal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

Storage

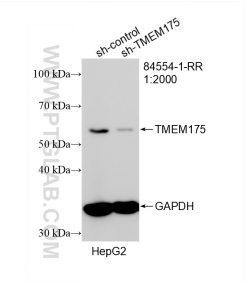
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

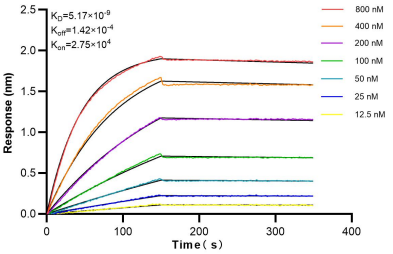
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84554-1-RR (TMEM175 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84554-1-PBS in a different storage buffer formulation.



WB result of TMEM175 antibody (84554-1-RR; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM175 transfected HepG2 cells. This data was developed using the same antibody clone with 84554-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84554-1-RR against Human TMEM175 were performed. The affinity constant is 5.17 nM.