

For Research Use Only

# TMEM175 Recombinant antibody

Catalog Number: 84554-1-RR



## Basic Information

Catalog Number:

84554-1-RR

Size:

550 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:

Protein A purification

CloneNo.:

241567B9

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HepG2 cells, HEK-293 cells, Jurkat cells, LNCaP cells

## 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.

## 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:

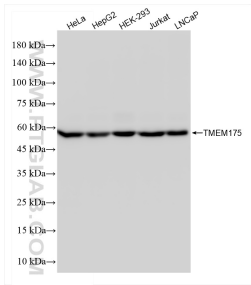
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

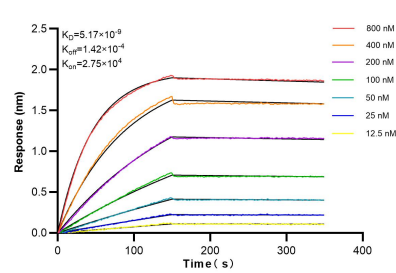
W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



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.



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