

For Research Use Only

TMEM175 Recombinant antibody, PBS Only

Catalog Number: 84554-1-PBS



Basic Information

Catalog Number: 84554-1-PBS	GenBank Accession Number: BC005158	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 84286	CloneNo.: 241567B9
Source: Rabbit	UNIPROT ID: Q9BSA9	
Isotype: IgG	Full Name: transmembrane protein 175	
Immunogen Catalog Number: AG13890	Calculated MW: 504 aa, 56 kDa	
	Observed MW: 41-45 kDa, 54-60 kDa	

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

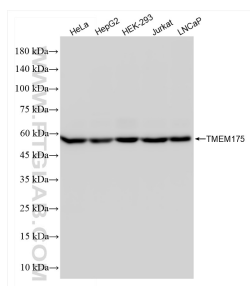
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

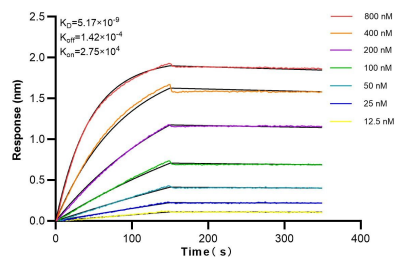
For technical support and original validation data for this product please contact:
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E: proteintech@ptglab.com
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Selected Validation Data



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.



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