

For Research Use Only

# TMEM27 Polyclonal antibody

Catalog Number: 24059-1-AP



## Basic Information

<b>Catalog Number:</b> 24059-1-AP	<b>GenBank Accession Number:</b> BC050606	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop and 307 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 57393	<b>Recommended Dilutions:</b> WB 1:200-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> transmembrane protein 27	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 25 kDa	
<b>Immunogen Catalog Number:</b> AG21257	<b>Observed MW:</b> 23 kDa	

## Applications

<b>Tested Applications:</b> WB,ELISA	<b>Positive Controls:</b> WB : HEK-293 cells,
<b>Species Specificity:</b> human	

## Background Information

TMEM27 (also termed collectrin), a 46 kDa type I transmembrane protein, is a homolog of the noncatalytic domain of angiotensin-converting enzyme-related carboxypeptidase (Ace2). Its expression has only been reported in the brush border membrane of the proximal tubules and collecting ducts of the kidney and in the pancreatic b cell (PMID: 11278314, 16330324). Overexpression of TMEM27 in b cells leads to increased proliferation in vitro and increased pancreatic b cell mass in vivo (PMID: 16330324, 16330323). The abundance of TMEM27 protein in b cells is furthermore regulated by ectodomain cleavage, which leads to two cleavage products, a 25 kDa N-terminal part that is released into the extracellular space (the shed fragment), and a 22 kDa C-terminal fragment (CTF) remaining in the membrane that is rapidly degraded (PMID: 16330324). TMEM27 is an N-glycosylated protein and can form dimers with MW of 64-75 kDa (patent US 20100119489 A1). TMEM27 can be used as a beta cell mass biomarker (PMID: 20386877, 21907142).

## Storage

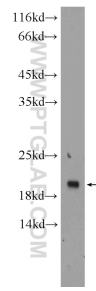
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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

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## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 24059-1-AP (TMEM27 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.