

For Research Use Only

# TMEM174 Polyclonal antibody

Catalog Number: 31210-1-AP

Featured Product



## Basic Information

**Catalog Number:**

31210-1-AP

**Size:**

150ul , Concentration: 430 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG35041

**GenBank Accession Number:**

BC019346

**GeneID (NCBI):**

134288

**UNIPROT ID:**

Q8WUU8

**Full Name:**

transmembrane protein 174

**Observed MW:**

55-60 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB: 1:500-1:2000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

WB, IP, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : HEK-293 cells, HEK-293T cells, Jurkat cells

IP : Jurkat cells,

## Background Information

Transmembrane protein 174 (TMEM174) is comprised of 243 amino acids, and contains two predicted transmembrane helices which determine its subcellular localization in endoplasmic reticulum and influences its functions (PMID: 20331980). TMEM174 mRNA is easily detectable in human kidney tissues and activates AP-1 and promotes 293T cell proliferation (PMID: 25202393). The Tmem174 protein was extremely highly expressed in the kidney and localized at the apical membrane of the renal proximal tubules. Tmem174 binds to NaPi2a on the cell membrane and is involved in the internalization of NaPi2a (PMID: 35428804). Tmem174 is considered to be a component of the NaPi2a/NHERF1 complex that receives signals from PTH and FGF23 (PMID: 35428804). This antibody may recognize the dimer.

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

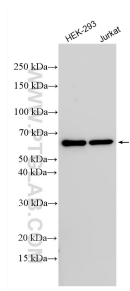
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

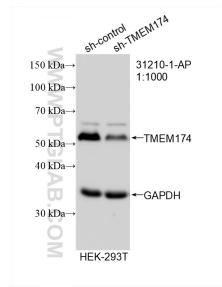
E: proteintech@ptglab.com  
W: ptglab.com

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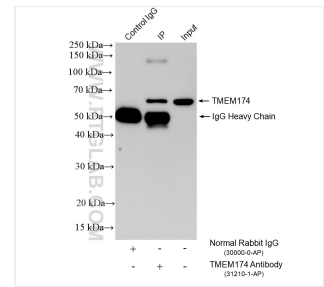
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31210-1-AP (TMEM174 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of TMEM174 antibody (31210-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TMEM174 transfected HEK-293T cells.



IP result of anti-TMEM174 (IP:31210-1-AP, 4 $\mu$ g; Detection:31210-1-AP 1:800) with Jurkat cells lysate 1360  $\mu$ g.