

For Research Use Only

# TMEM64 Polyclonal antibody

Catalog Number: 21274-1-AP



## Basic Information

<b>Catalog Number:</b> 21274-1-AP	<b>GenBank Accession Number:</b> BC113828	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 169200	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> transmembrane protein 64	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 380 aa, 40 kDa	
<b>Immunogen Catalog Number:</b> AG15753	<b>Observed MW:</b> 40-45 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, rat brain tissue IHC : human prostate cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Tmem64 (transmembrane protein 64) is a positive modulator of osteoclast differentiation by SERCA2-dependent Ca<sup>2+</sup> signaling (PMID: 23395171). Altered Levels of mRNAs for Calcium-Binding/Associated Proteins, Annexin A1, S100A4, and TMEM64 are associated with osteoporosis in peripheral blood mononuclear cells (PMID: 31814858). Tmem64 is involved in the metastatic progression of prostate cancer cells by regulating Wnt3a secretion (PMID: 31289498).

## 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

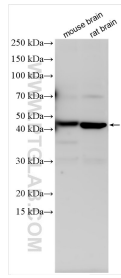
For technical support and original validation data for this product please contact:

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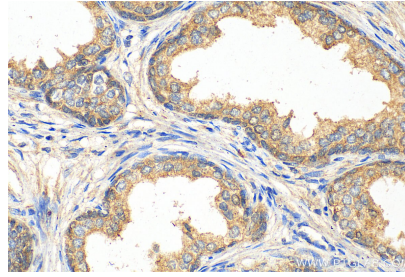
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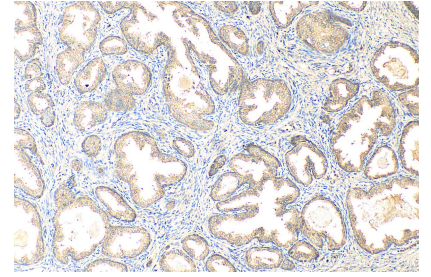
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21274-1-AP (TMEM64 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 21274-1-AP (TMEM64 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with .



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 21274-1-AP (TMEM64 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with .