

For Research Use Only

# TMEM26 Polyclonal antibody

Catalog Number: 27267-1-AP



## Basic Information

<b>Catalog Number:</b> 27267-1-AP	<b>GenBank Accession Number:</b> BC042872	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 400 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 219623	<b>Recommended Dilutions:</b> WB: 1:4000-1:8000 IHC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q6ZUK4	
<b>Isotype:</b> IgG	<b>Full Name:</b> transmembrane protein 26	
<b>Immunogen Catalog Number:</b> AG24409	<b>Calculated MW:</b> 368 aa, 42 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: LO2 cells, HepG2 cells, Jurkat cells, MDA-MB-231 cells

IHC: human breast cancer tissue,

## Background Information

The Transmembrane protein 26 (TMEM26) gene encodes a protein containing multiple transmembrane fragments. Immunostaining indicated elevated TMEM26 expression in ESCC tumors. Various ESCC cell lines showed a high TMEM26 expression, where its plasma membrane localization was confirmed. The RNAi depletion of TMEM26 in TMEM26-high ESCC cells suppressed EMT-related alterations, including invasion, migration, and marker gene expression. Conversely, TMEM26 overexpression in TMEM26-low ESCC cells promoted these EMT-related alterations. Interestingly, TMEM26 depletion or overexpression did not affect cell growth, indicating its specific involvement in the EMT process. The animal study demonstrated the contributive role of TMEM26 in metastatic ESCC. Mechanistically, TMEM26 promoted NF- $\kappa$ B signaling to accelerate EMT in ESCC cells. The plasma membrane presentation and TJ protein assembly were impaired by TMEM26, which was likely to be another mechanism for EMT regulation by TMEM26 in ESCC. Therefore, TMEM26 disrupted TJ formation and promoted NF- $\kappa$ B signaling during the EMT activation in ESCC (PMID: 37611445). TMEM26 shows features for chain, glycosylation, modified residue (large scale data).

## 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

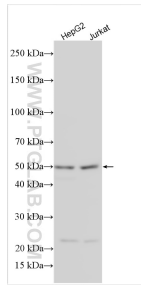
For technical support and original validation data for this product please contact:

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

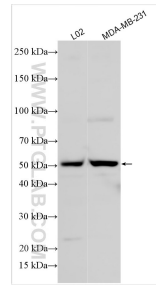
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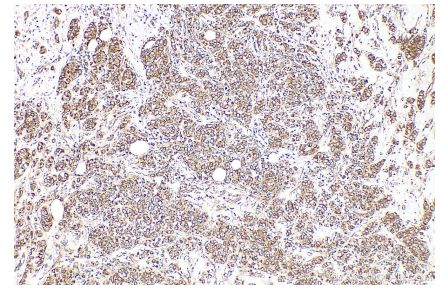
## Selected Validation Data



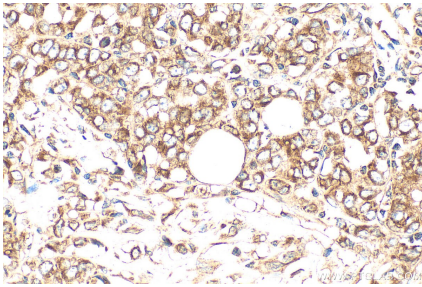
Various lysates were subjected to SDS PAGE followed by western blot with 27267-1-AP (TMEM26 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 27267-1-AP (TMEM26 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 27267-1-AP (TMEM26 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).