For Research Use Only

TMEM26 Polyclonal antibody

Catalog Number:27267-1-AP

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Basic Information

Catalog Number:
27267-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG24409

GenBank Accession Number:
BC042872

GeneID (NCBI):
219623

UNIPROT ID:
Q6ZUK4

Full Name:
transmembrane protein 26

Calculated MW:
368 aa, 42 kDa

Observed MW:
50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:4000-1:8000
IHC: 1:50-1:500

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 : L02 cells, HepG2 cells, Jurkat cells, MDA-MB-231 cells

IHC : human breast cancer tissue,

Background Information

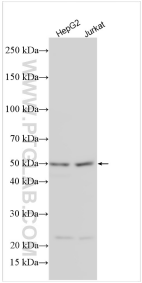
The Transmembrane protein 26 (TMEM26) gene encodes a protein containing multiple transmembrane fragments. Immunostaining indicated elevated TMEM26 expression in ESCC tumors. Various ESCC cell lines showed a high TMEM26 expression, where its plasma membrane localization was confirmed. The RNAi depletion 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-κB 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-κB signaling during the EMT activation in ESCC (PMID: 37611445). TMEM26 shows features for chain, glycosylation, modified residue (large scale data).

Storage

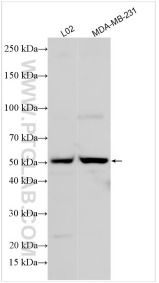
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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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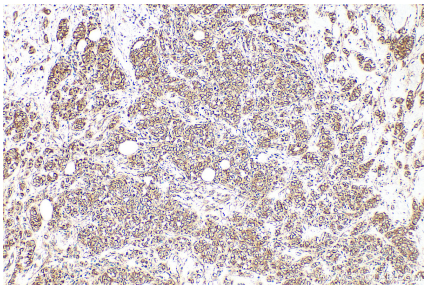
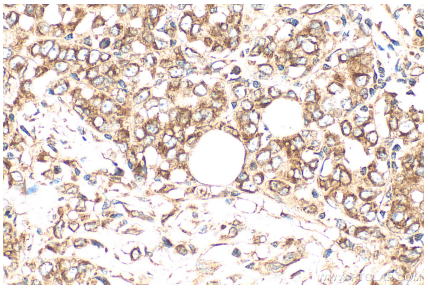


Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 27267-1-AP (TMEM26 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).