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Anti-TMEM16J Antibody

Catalog # AP53929

Product Information

Application	WB, IHC, IF/IC
Primary Accession	A1A5B4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90333

Additional Information

Gene ID	338440
Other Names	PIG5; TMEM16J; TP53I5; Anoctamin-9; Transmembrane protein 16J; Tumor protein p53-inducible protein 5; p53-induced gene 5 protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human TMEM16J. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/2000 IHC~~1/50 - 1/200 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	ANO9
Synonyms	PIG5, TMEM16J, TP53I5
Function	PKA-activated nonselective cation channel (PubMed: 29604966). Discriminates poorly among cations but is more permeable to Ca(2+) ions than to monovalent cations (By similarity). Acts as a calcium-activated calcium permeable channel which may operate as a endoplasmic reticulum (ER) Ca(2+)-leak channel, reducing the loading of the ER Ca(2+) store (PubMed:36520003). Regulates intracellular Ca2+ signals, ion channel activity, and cytokine release in the renal tissue (PubMed:36520003). Plays an important role in olfaction, amplifying cAMP-evoked cyclic nucleotide-gated (CNG) channel currents in the olfactory sensory neurons (By similarity). Has calcium-dependent phospholipid scramblase activity; scrambles phosphatidylserine, phosphatidylcholine and galactosylceramide (By similarity). Does not exhibit calcium-activated chloride channel (CaCC) activity (PubMed:22178883). Can inhibit the activity of ANO1 (PubMed:20056604,

PubMed:22946059).

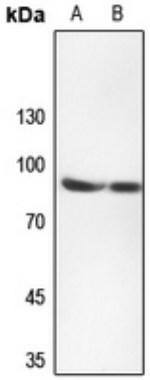
Cellular Location

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum. Note=Shows predominantly an intracellular localization with a weak expression in the cell membrane

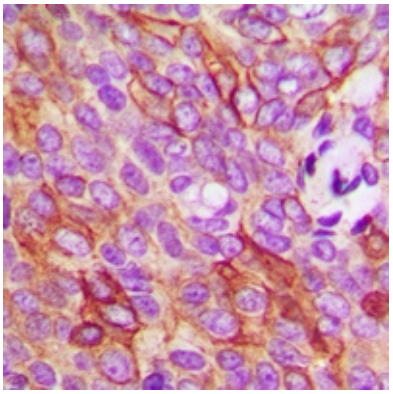
Tissue Location

Expressed in the kidney (PubMed:36520003). Expressed in the olfactory epithelium (PubMed:36330924)

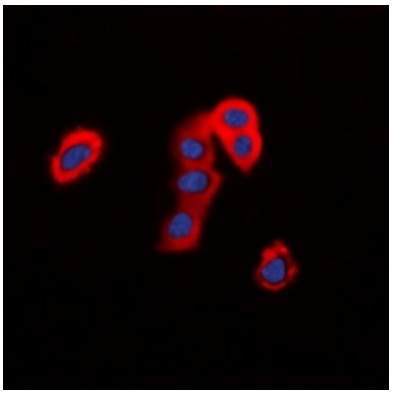
Images



Western blot analysis of TMEM16J expression in mouse brain (A), mouse liver (B) whole cell lysates. (Predicted band size: 90 kD; Observed band size: 90 kD)



Immunohistochemical analysis of TMEM16J staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of TMEM16J staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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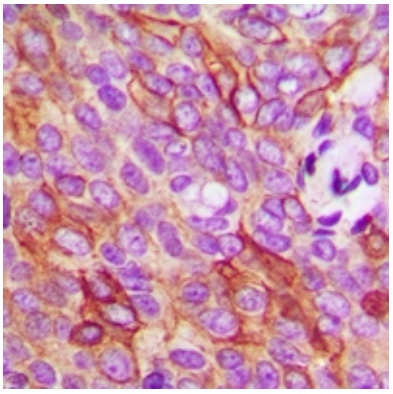

haematoxylin and mounted with DPX.