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Anti-ANO9 Antibody

Rabbit Polyclonal Antibody
Catalog # ABV11856

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	A1A5B4
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	90333

Additional Information

Gene ID	338440
Positive Control	WB: RAW264.7 cell lysate; IHC: human breast cancer tissue; IFC: HepG2 cells
Application & Usage	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
Alias Symbol	ANO9
Other Names	PIG5, TMEM16J, TP53I5, Anoctamin-9, Transmembrane protein 16J, Tumor protein p53-inducible protein 5, p53-induced gene 5 protein, Anoctamin-9
Appearance	Colorless liquid
Formulation	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-ANO9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

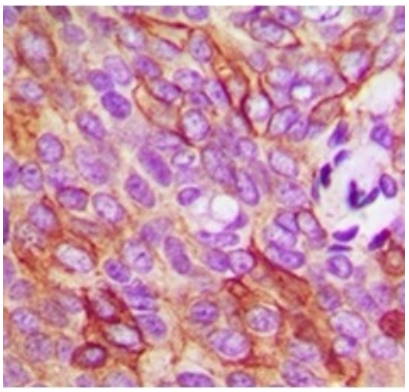
Name	ANO9
Synonyms	PIG5, TMEM16J, TP53I5
Function	PKA-activated nonselective cation channel (PubMed: 29604966). Discriminates poorly among cations but is more permeable to Ca(2+) ions than to monovalent cations (By similarity). Acts as a calcium-activated calcium permeable channel which may operate as 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)

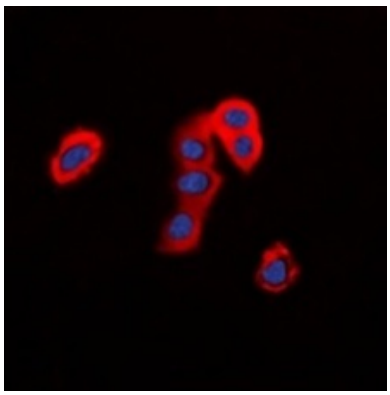
Background

Has calcium-dependent phospholipid scramblase activity; scrambles phosphatidylserine, phosphatidylcholine and galactosylceramide (By similarity). Does not exhibit calcium-activated chloride channel (CaCC) activity. Can inhibit the activity of ANO1.

Images

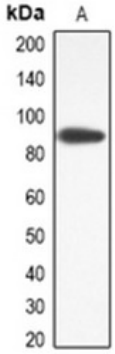


Immunohistochemical analysis of ANO9 staining in human breast cancer formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of ANO9 staining in HepG2 cells.

Western blot analysis of ANO9 expression in RAW264.7(A) whole cell lysates.



Citations

- Intestinal accumulation of microbiota-produced succinate caused by loss of microRNAs leads to diarrhea in weanling piglets

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.