

ANO9 Rabbit pAb

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Catalog # AP54753

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	A1A5B4
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90333
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TP53I5/ANO9
Epitope Specificity	551-650/782
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	May act as a calcium-activated chloride channel.

Additional Information

Gene ID	338440
Other Names	Anoctamin-9, Transmembrane protein 16J, Tumor protein p53-inducible protein 5, p53-induced gene 5 protein, ANO9, PIG5, TMEM16J, TP53I5
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

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