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# ANO9 Rabbit pAb

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Catalog # AP54753

## Product Information

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| **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

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| **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

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| **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 |

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| | 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'.