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Anti-KCNQ4 Antibody (C-Terminus)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18431

Product Information

Application	WB, IHC-P
Primary Accession	P56696
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77101
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	9132
Alias Symbol	KCNQ4
Other Names	KCNQ4, DFNA2A, DFNA2, KV7.4, KQT-like 4, Potassium channel KQT-like 4
Target/Specificity	Recognizes endogenous levels of Kv7.4 protein.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-KCNQ4 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KCNQ4 (HGNC:6298)
Function	Pore-forming subunit of the voltage-gated potassium (Kv) channel involved in the regulation of sensory cells excitability in the cochlea (PubMed:10025409, PubMed:34767770). KCNQ4/Kv7.4 channel is composed of 4 pore-forming subunits assembled as tetramers (PubMed:34767770). Promotes the outflow of potassium ions in the repolarization phase of action potential which plays a role in regulating membrane potential of excitable cells (PubMed:10025409, PubMed:11245603, PubMed:34767770). The channel conducts a slowly activating and deactivating current (PubMed:10025409, PubMed:11245603). Current often shows some inward rectification at positive potentials (PubMed:10025409). Channel may be selectively permeable in vitro to other cations besides potassium, in decreasing order of affinity K(+) = Rb(+) > Cs(+) > Na(+) (PubMed:10025409). Important for normal physiological function of inner ear such as sensory perception of sound (PubMed:10025409, PubMed:10369879).

Cellular Location	Basal cell membrane {ECO:0000250|UniProtKB:Q9JK96}; Multi-pass membrane protein. Note=Situated at the basal membrane of cochlear outer hair cells. {ECO:0000250|UniProtKB:Q9JK96}
Tissue Location	Expressed in the outer, but not the inner, sensory hair cells of the cochlea (PubMed:10025409). Slightly expressed in heart, brain and skeletal muscle (PubMed:10025409)

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