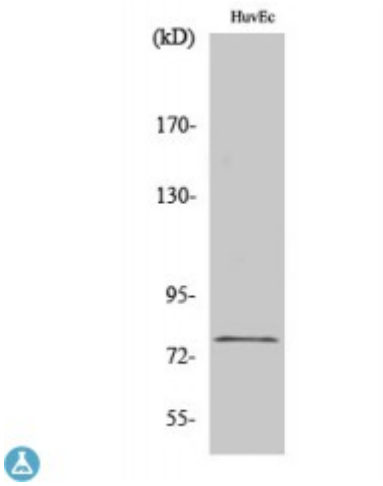
Anti-KCNQ4 antibody



Description	Rabbit polyclonal to KCNQ4.

Model	STJ93824
Host	Rabbit
Reactivity	Human, Mouse
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human KCNQ4
Immunogen Region	620-700 aa, C-terminal
Gene ID	9132
Gene Symbol	KCNQ4
Dilution range	WB 1:500-1:2000ELISA 1:5000
Specificity	KCNQ4 Polyclonal Antibody detects endogenous levels of KCNQ4 protein.
Tissue Specificity	Expressed in the outer, but not the inner, sensory hair cells of the cochlea. Slightly expressed in heart, brain and skeletal muscle.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Potassium voltage-gated channel subfamily KQT member 4 KQT-like 4 Potassium channel subunit alpha KvLQT4 Voltage-gated potassium channel subunit Kv7.4
Molecular Weight	80 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6298OMIM:600101
Alternative Names	Potassium voltage-gated channel subfamily KQT member 4 KQT-like 4 Potassium channel subunit alpha KvLQT4 Voltage-gated potassium channel subunit Kv7.4
Function	Probably important in the regulation of neuronal excitability. May underlie a potassium current involved in regulating the excitability of sensory cells of the cochlea. KCNQ4 channels are blocked by linopirdin, XE991 and bepridil, whereas clofilium is without significant effect. Muscarinic agonist oxotremorine-M strongly suppress KCNQ4 current in CHO cells in which cloned KCNQ4 channels were coexpressed with M1 muscarinic receptors.
Sequence and Domain Family	The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. The A-domain tail carries the major determinants of channel assembly specificity. Its coiled-coil region is Four-stranded.
Cellular Localization	Basal cell membrane. Multi-pass membrane protein. Situated at the basal membrane of cochlear outer hair cells.