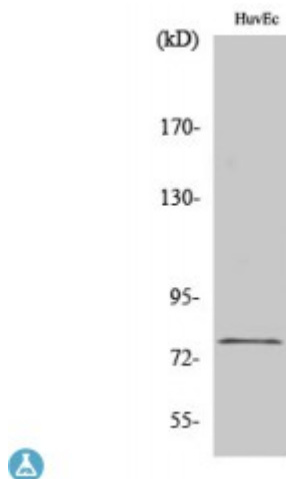


## Anti-KCNQ4 antibody



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

<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="#">HGNC:6298OMIM:600101</a>
<b>Alternative Names</b>	Potassium voltage-gated channel subfamily KQT member 4 KQT-like 4 Potassium channel subunit alpha KvLQT4 Voltage-gated potassium channel subunit Kv7.4
<b>Function</b>	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.
<b>Sequence and Domain Family</b>	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.
<b>Cellular Localization</b>	Basal cell membrane. Multi-pass membrane protein. Situated at the basal membrane of cochlear outer hair cells.