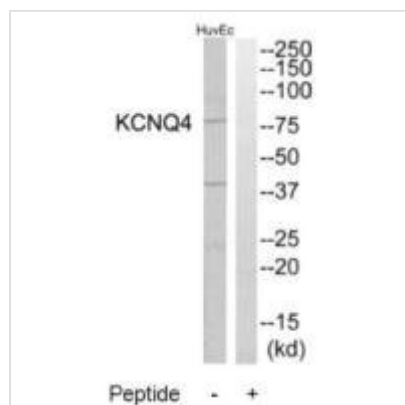




# KCNQ4 Antibody

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-PA288698                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>             | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Uniprot No.</b>         | P56696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>           | Synthesized peptide derived from C-terminal of Human KCNQ4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Raised In</b>           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species Reactivity</b>  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>         | The antibody detects endogenous levels of total KCNQ4 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Tested Applications</b> | ELISA,WB;WB:1:500-1:3000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Relevance</b>           | <p>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.</p> <p>Kubisch C., Cell 96:437-446(1999).<br/> Gregory S.G., Nature 441:315-321(2006).<br/> Selyanko A.A., J. Physiol. (Lond.) 522:349-355(2000).</p> |
| <b>Form</b>                | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purification Method</b> | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Clonality</b>           | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Alias</b>               | Potassium voltage-gated channel subfamily KQT member 4; Voltage-gated potassium channel subunit Kv7.4; Potassium channel subunit alpha KvLQT4; KQT-like 4;                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Product Type</b>        | Polyclonal Antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>             | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Target Names</b>        | KCNQ4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Image</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



Western blot analysis of extracts from HuvEc cells, using KCNQ4 antibody.