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# KCNQ1 Rabbit pAb

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|---|---|
| Catalog Number: | bs-6760R |
| Target Protein: | KCNQ1 |
| Concentration: | 1mg/ml |
| Form: | Liquid |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Isotype: | IgG |
| Applications: | WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ELISA (1:5000-10000) |
| Reactivity: | (predicted:Human, Mouse, Rat, Cow, Chicken, Dog) |
| Predicted MW: | 75 kDa |
| Entrez Gene: | 3784 |
| Swiss Prot: | P51787 |
| Source: | KLH conjugated synthetic peptide derived from human KCNQ-1: 501-600/676. |
| Purification: | affinity purified by Protein A |
| Storage: | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.<br>Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. |
| Background: | Probably important in cardiac repolarization. Associates with KCNE1 (MinK) to form the I(Ks) cardiac potassium current. Elicits a rapidly activating, potassium-selective outward current. Muscarinic agonist oxotremorine-M strongly suppresses KCNQ1/KCNE1 current in CHO cells in which cloned KCNQ1/KCNE1 channels were coexpressed with M1 muscarinic receptors. May associate also with KCNE3 (MiRP2) to form the potassium channel that is important for cyclic AMP-stimulated intestinal secretion of chloride ions, which is reduced in cystic fibrosis and pathologically stimulated in cholera and other forms of secretory diarrhea. Involvement in disease: |

## PRODUCT SPECIFIC PUBLICATIONS

[IF=5.9] Zhao, Jing, et al. "Chronic obstructive sleep apnea causes atrial remodeling in canines: mechanisms and implications." Basic Research in Cardiology 109.5 (2014): 1-13. WB ; ="Dog" . 25015734

[IF=0] Trotta et al. Inhibition of aldose-reductase-2 by a benzofuroxane derivative bf-5m increases the expression of kcne1, kcnq1 in high glucose cultured H9c2 cardiac cells and sudden cardiac death. (2018) Oncotarget. 9:17257-17269 IF ; Rat . 29707106