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Rabbit Anti-Kv1.8/AF350 Conjugated antibody

SL16866R-AF350

Product Name	Anti-Kv1.8/AF350
Chinese Name	AF350 标记的电压门控钾通道 Kv1.8 抗体
Alias	Cyclic GMP gated potassium channel; KCA10_HUMAN; Kcn 1; Kcn1; KCNA 10; KCNA10; Kv1.8; Potassium voltage gated channel shaker related subfamily member 10; Potassium voltage gated channel subfamily A member 10; Potassium voltage-gated channel subfamily A member 10; Voltage gated potassium channel subunit Kv1.8; Voltage-gated potassium channel subunit Kv1.8.
Research Area	Tumour Cardiovascular Cell biology Signal transduction Channel protein Transmembrane protein The cell membrane 蛋白
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Chicken,Dog,Pig,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	58kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Kv1.8
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:**

Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It is specifically regulated by cGMP and postulated to mediate the effects of substances that increase intracellular cGMP. This gene is intronless, and the gene is clustered with genes KCNA2 and KCNA3 on chromosome 1. [provided by RefSeq, Jul 2008]

Function:
Mediates voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. The channel activity is up-regulated by cAMP.

Subunit:
Homotetramer. Interacts with KCN4B/POMP. Interaction with KCN4B/POMP is necessary for the modulation of channel activity by cAMP.

Subcellular Location:
Membrane.

Tissue Specificity:
Detected in kidney, in proximal tubules, glomerular endothelium, in vascular endothelium and in smooth muscle cells.

Similarity:
Belongs to the potassium channel family.
A (Shaker) (TC 1.A.1.2) subfamily.
Kv1.8/KCNA10 sub-subfamily.

Database links:

Entrez Gene: 3744 Human

Entrez Gene: 242151 Mouse

Entrez Gene: 295360 Rat

Omim: 602420 Human

SwissProt: Q16322 Human

Unigene: 248140 Human

Unigene: 622910 Human

Unigene: 245155 Mouse

Unigene: 154486 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.