

产品名称: KV1.5 Rabbit Polyclonal Antibody
产品货号: AP Rab13161



产品概述 (Summary)

产品名称 (Production Name)	KV1.5 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	KCNA5 KCNA5; Potassium voltage-gated channel subfamily A member 5; HPCN1;
别名 (Alternative Names)	Voltage-gated potassium channel HK2; Voltage-gated potassium channel subunit Kv1.5
基因 ID (Gene ID)	3741.0
蛋白 ID (SwissProt ID)	P22460.The antiserum was produced against synthesized peptide derived from human KCNA5. AA range:253-302

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:50-1:300,ELISA 1:2000-1:20000
蛋白分子量 (Molecular Weight)	68kDa

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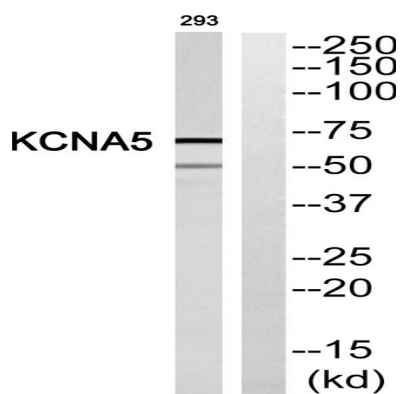
研究背景 (Background)

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 belongs to the delayed rectifier class, the function of which could restore the resting membrane potential of beta cells after depolarization and thereby contribute to the regulation of disease: Defects in KCNA5 are the cause of atrial fibrillation familial type 7 (ATFB7) [MIM:612240]. Atrial fibrillation is a common disorder of cardiac rhythm that is hereditary in a small subgroup of patients. It is characterized by disorganized atrial electrical activity, progressive deterioration of atrial electromechanical function and ineffective pumping of blood into the ventricles. It can be associated with palpitations, syncope, thromboembolic stroke, and congestive heart failure. domain: The amino terminus may be important in determining the rate of inactivation of the channel while the C-terminal PDZ-binding motif may play a role in modulation of channel activity and/or targeting of the channel to specific subcellular compartments. domain: The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. function: Mediates the 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. May play a role in regulating the secretion of insulin in normal pancreatic islets. Isoform 2 exhibits a voltage-dependent recovery from inactivation and an excessive cumulative inactivation. PTM: Sumoylated on Lys-221, and Lys-536, preferentially by SUMO3. Sumoylation regulates the voltage sensitivity of the channel. similarity: Belongs to the potassium channel family. A (Shaker) subfamily. subunit: Heterotetramer of potassium channel proteins. Interacts with DLG1, which enhances channel currents. Forms a ternary complex with DLG1 and CAV3 (By similarity). Interacts with UBE2L. tissue specificity: Pancreatic islets and insulinoma.

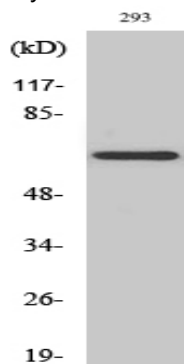
研究领域 (Research Area)

图片 (Image Data)

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Western blot analysis of KCNA5 Antibody. The lane on the right is blocked with the KCNA5 peptide.



Western Blot analysis of various cells using KV1.5 Polyclonal Antibody diluted at 1: 500

注意事项 (Note)

For research use only .