

产品名称: Kv4.2 Rabbit Polyclonal Antibody
产品货号: AP Rab13169



产品概述 (Summary)

产品名称 (Production Name)	Kv4.2 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	IHC, ICC, IF, 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)	KCND2
别名 (Alternative Names)	KCND2; KIAA1044; Potassium voltage-gated channel subfamily D member 2; Voltage-gated potassium channel subunit Kv4.2
基因 ID (Gene ID)	3751.0
蛋白 ID (SwissProt ID)	Q9NZV8. The antiserum was produced against synthesized peptide derived from human Kv4.2/KCND2. AA range: 581-630

产品应用 (Application)

稀释比 (Dilution Ratio)	IHC 1:100-1:300, ICC/IF 1:50-1:200, ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	

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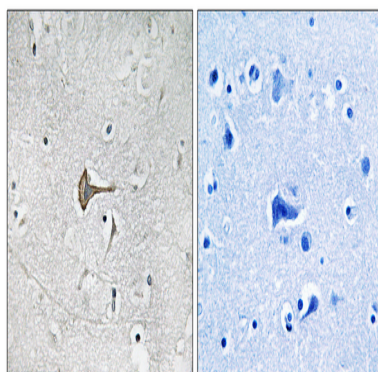


研究背景 (Background)

Voltage-gated potassium (Kv) 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, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. This member mediates a rapidly inactivating, A-type outward potassium current which is not under the control of the N terminus as is 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: Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits. PTM: Phosphorylated on serine and threonine residues. similarity: Belongs to the potassium channel family. D (Shal) subfamily. subcellular location: Detected in dendrites in cultured hippocampal neurons. Association with KCNIP2 probably enhances cell surface expression. subunit: Homotetramer or heterotetramer with KCND1 and/or KCND3. Interacts with DPP6, DLG4 and FREQ (By similarity). Interacts with DLG1. Associates with the regulatory subunits KCNIP1, KCNIP2, KCNIP3 and KCNIP4. Probably part of a complex consisting of KCNIP1, KCNIP2 isoform 3 and KCND2. The KCND2-KCNIP2 channel complex contains four KCND2 and four KCNIP2 subunits. Interacts with FLNA, FLNC and DPP10. tissue specificity: Highly expressed throughout the brain. Expression is very low or absent in other tissues.

研究领域 (Research Area)

图片 (Image Data)



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Kv4.2/KCND2 Antibody. The picture on the right is blocked with the synthesized peptide.

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注意事项 (Note)

For research use only .