

KV1.5 Polyclonal Antibody

Catalog No: YT2507

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA;IHC

Target: KV1.5

Gene Name: KCNA5

Protein Name: Potassium voltage-gated channel subfamily A member 5

P22460

Q61762

Human Gene Id: 3741

Human Swiss Prot

No:

Mouse Gene Id: 16493

Mouse Swiss Prot

No:

Rat Gene ld: 25470

Rat Swiss Prot No: P19024

Immunogen: The antiserum was produced against synthesized peptide derived from human

KCNA5. AA range:253-302

Specificity: KV1.5 Polyclonal Antibody detects endogenous levels of KV1.5 protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 68kD

Background: Potassium channels represent the most complex class of voltage-gated ino

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

Function: 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.,func

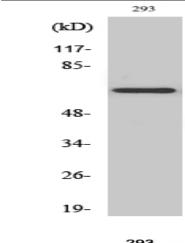
Subcellular Location:

Cell membrane; Multi-pass membrane protein.

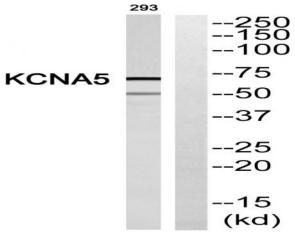
Expression: Pancreatic islets and insulinoma.

Products Images

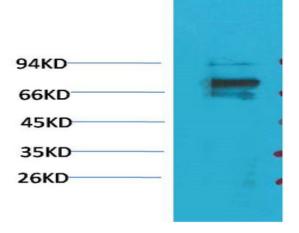
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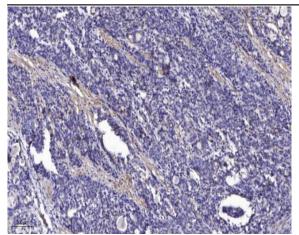
Western Blot analysis of various cells using KV1.5 Polyclonal Antibody diluted at 1:500



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



Western blot analysis of 293T with KV1.5 Rabbit pAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).