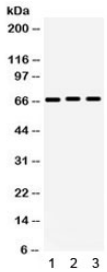
KCNA5 Antibody / Kv1.5 (R32019)

Catalog No.	Formulation	Size
R32019	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P22460
Applications	Western Blot : 0.1-0.5ug/ml
Limitations	This KCNA5 antibody is available for research use only.



Western blot testing of human 1) 293, 2) A549 and 3) PANC cell lysate with KCNA5 antibody. Expected/observed molecular weight ~67 kDa.

Description

Potassium voltage-gated channel, shaker-related subfamily, member 5, also known as KCNA5 or Kv1.5, is a protein that in humans is encoded by the KCNA5 gene. Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. KCNA5 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, thereby contributing to the regulation of insulin secretion. This gene is intronless, and the gene is clustered with genes KCNA1 and KCNA6 on chromosome 12. Mutations in this gene have

been related to both atrial fibrillation and sudden cardiac death. KCNA5 are also key players in pulmonary vascular function, where they play a role in setting the resting membrane potential and its involvement during hypoxic pulmonary vasoconstriction.

Application Notes

Optimal dilution of the KCNA5 antibody should be determined by the researcher.

Immunogen

Amino acids LEKCNVKAKSNVDLRRSLYALCLDTSRETDL of human KCNA5 were used as the immunogen for the KCNA5 antibody.

Storage

After reconstitution, the KCNA5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.