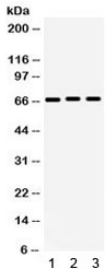
# KCNA5 Antibody / Kv1.5 (R32019)

| 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.


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