

## Anti-KCNA5 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9651-Biotin

### About KCNA5

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.

### Overview

Product Name	Anti-KCNA5 Antibody Picoband® Biotin Conjugated
Reactive Species	Human
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P22460

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human KCNA5, different from the related mouse and rat sequences by two amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental

requirements.

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