

Anti-KCNA5 Antibody Picoband®

Catalog Number: PB9651

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

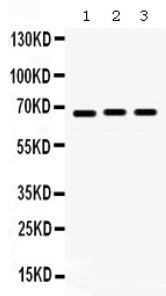
Product Name	Anti-KCNA5 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-KCNA5 Antibody Picoband® catalog # PB9651. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
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.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

Anti-KCNA5 Antibody Picoband® (PB9651) Images



Western blot analysis of KCNA5 using anti-KCNA5 antibody (PB9651). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: 293T Whole Cell Lysate at 40ug, Lane 2: A549 Whole Cell Lysate at 40ug, Lane 3: PANC Whole Cell Lysate at 40ug. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KCNA5 antigen affinity purified polyclonal antibody (Catalog # PB9651) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for KCNA5 at approximately 67 kDa. The expected band size for KCNA5 is at 67 kDa.

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Anti-KCNA5 Antibody

For Research Use Only. Not for use in diagnostic procedures.