

Anti-Kv4.3/KCND3 Antibody Picoband™

Catalog Number: PB9229

About KCND3

Potassium voltage-gated channel subfamily D member 3, also known as Kv4.3, is a protein that in humans is encoded by the KCND3 gene. KCND3 is a member of the potassium channel, voltage-gated, shal-related subfamily. Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion 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. It is mapped to 1p13.2. KCND3 is important in membrane repolarization in excitable cells. It contributes to the cardiac transient outward potassium current (Ito1), the main contributing current to the repolarizing phase 1 of the cardiac action potential.

Overview

Product Name	Anti-Kv4.3/KCND3 Antibody Picoband™
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Kv4.3/KCND3 Antibody Picoband™ catalog # PB9229. Tested in WB applications. This antibody reacts with Human, Mouse.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Q9UK17

Technical Details

Immunogen	E.coli-derived human Kv4.3 recombinant protein (Position: M1-H177). Human Kv4.3 shares 100% and 99% amino acid (aa) sequences identity with mouse and rat Kv4.3, respectively.
Predicted Reactive Species	Bovine, Hamster, Horse, Monkey, Rabbit
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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Mouse, Human</p>

Anti-Kv4.3/KCND3 Antibody Picoband™ (PB9229) Images



Anti-Kv4.3 antibody, PB9229, Western blotting
All lanes: Anti Kv4.3 (PB9229) at 0.5ug/ml
WB: Mouse Brain Tissue Lysate at 50ug
Predicted bind size: 73KD
Observed bind size: 73KD

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