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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Kv2.1/KCNB1 Antibody Picoband® Biotin Conjugated

Catalog Number: PB9111-Biotin

About KCNB1

KCNB1, also known as Kv2.1 or DRK1, is a protein that, in humans, is encoded by the KCNB1 gene. It is mapped to 20q13.13. KCNB1 is found in cardiomyocytes, skeletal muscles, vascular smooth muscles, placental vasculature, retina, and pancreatic beta-cells. It can mediates the voltage-dependent potassium ion permeability of excitable membranes. KCNB1 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.

Overview

Product Name	Anti-Kv2.1/KCNB1 Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Mouse, Rat
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q14721

Technical Details

Immunogen	E.coli-derived human Kv2.1 recombinant protein (Position: V687-I858). Human Kv2.1 shares 88% amino acid (aa) sequence identity with both mouse and rat Kv2.1.
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	Western blot, Optimal dilutions should be determined by end users. Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.

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	ELISA, Optimal dilutions should be determined by end users.

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