

Anti-Maxi Potassium channel alpha/KCNMA1 Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9227-Cy3

About KCNMA1

Calcium-activated potassium channel subunit alpha-1 also known as KCa1.1, or BK channel for short, is a voltage gated potassium channel encoded by the KCNMA1 gene and characterized by their large conductance of potassium ions (K⁺) through cell membranes. This gene is located on 10q22.3. BK channels are activated (opened) by changes in membrane electrical potential and/or by increases in concentration of intracellular calcium ion (Ca²⁺). It is essential for the regulation of several key physiological processes including smooth muscle tone and neuronal excitability. BK channels also contribute to the behavioral effects of ethanol in the worm *C. elegans* under high concentrations (> 100 mM, or approximately 0.50% BAC). It remains to be determined if BK channels contribute to intoxication in humans.

Overview

Product Name	Anti-Maxi Potassium channel alpha/KCNMA1 Antibody Picoband® Cy3 Conjugated
Reactive Species	Human, Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q12791

Technical Details

Immunogen	E.coli-derived human KCNMA1 recombinant protein (Position: K124-Q467). Human KCNMA1 shares 99% amino acid (aa) sequence identity with both mouse and rat KCNMA1.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Cy3

	Excitation Wavelength: 554 nm Emission Wavelength: 568 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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