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Mouse Anti-Porcine Potassium Voltage-Gated Channel Subfamily A Member 1 (KCNA1) Monoclonal Antibody

Cat. No.: VD10N52

Product Type: Animal-targeted Antibodies

Size: 100ug

Product Overview

BioVenic mouse monoclonal antibody is specific for potassium voltage-gated channel subfamily A member 1. It is affinity purified by protein A. It can be applied to WB and Indirect ELISA assays of potassium voltage-gated channel subfamily A member 1.

Specifications

Application	WB; Indirect ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	O11N52
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Potassium Voltage-Gated Channel Subfamily A Member 1
Isotype	IgG2
Immunogen	Recombinant protein of potassium voltage-gated channel subfamily A member 1
Purification	Protein A Purified
Concentration	1 mg/mL
Conjugation	Unconjugated
Buffer	Phosphate Buffered Saline
Physical State	Liquid

Target Information

Porcine potassium voltage-gated channel subfamily A member 1 (KCNA1), also known as Kv1.1, is a critical component of the voltage-gated potassium channel family. This subfamily of channels plays a significant role in the rapid repolarization of action potentials in neurons and other excitable cells. Kv1.1, in particular, is essential for maintaining proper neuronal excitability and has been im

plicated in various neurological disorders, such as epilepsy, when its function is compromised. The channel's function is not only li mited to the nervous system but also extends to other tissues where it contributes to the regulation of membrane potential and the f requency of action potentials. Kv1.1 forms a heterotetramer with other Kv subunits, creating a channel that is sensitive to voltage c hanges across the cell membrane. This channel's activity is crucial for the proper timing of electrical signals in the heart and brain, and its dysfunction can lead to serious health consequences.

Target	Potassium Voltage-Gated Channel Subfamily A Member 1
Target Synonym	AEMK
Gene ID	100048962
UniProt ID	F1SL10

Shipping and Storage

This product is shipped with ice gel packs. Store at -80°C on receipt.

Reference

Lauxmann, Stephan, *et al*. "Therapeutic potential of sodium channel blockers as a targeted therapy approach in KCNA1-associate d episodic ataxia and a comprehensive review of the literature." *Frontiers in Neurology* 12 (2021): 703970.