

Mouse Anti-Porcine Calmodulin-Dependent Protein Kinase II Alpha (CAMK2A) Monoclonal Antibody

Cat. No.: VD8N310

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL; 150uL

Product Overview

BioVenic mouse monoclonal antibody is specific for calmodulin-dependent protein kinase II alpha. It is affinity purified by protein A. It can be applied to WB, IHC, IF and ELISA assays of calmodulin-dependent protein kinase II alpha.

Specifications

Application	WB; IF; IHC; ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G6N54
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Calmodulin-Dependent Protein Kinase II Alpha
Isotype	IgG1
Immunogen	Recombinant protein of calmodulin-dependent protein kinase II alpha
Purification	Protein A Purified
Concentration	1300 µg/mL
Conjugation	Unconjugated
Preservative and Stabilizer	0.02% Sodium Azide
Buffer	Phosphate Buffered Saline with 50% Glycerol, pH 7.3
Physical State	Liquid

Target Information

Porcine calmodulin-dependent protein kinase II alpha (CAMK2A) is a crucial enzyme involved in the calcium/calmodulin-dependent signaling pathway in pigs. CAMK2A is a multifunctional serine/threonine kinase that plays a significant role in various cellular processes, including the regulation of neuronal plasticity, gene expression, and muscle contraction. This kinase is activated by the binding of calcium-calmodulin complex, which then triggers a series of phosphorylation events affecting target proteins. CAMK2A is highly expressed in the brain and muscle tissues, where it contributes to the control of synaptic transmission, learning, and memory processes, as well as muscle function.

Target	Calmodulin-Dependent Protein Kinase II Alpha
Gene ID	100626014
UniProt ID	Q95266

Shipping and Storage

This product is shipped with ice gel packs. Store at -20°C (up to 12 months) on receipt.

Reference

Tokumitsu, Hiroshi, *et al.* "Characterization of a Ca²⁺/Calmodulin-dependent Protein Kinase Cascade: MOLECULAR CLONING AND EXPRESSION OF CALCIUM/CALMODULIN-DEPENDENT PROTEIN KINASE KINASE (*)." *Journal of Biological Chemistry* 270.33 (1995): 19320-19324.

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