

Mouse Anti-Porcine Myosin Binding Protein C (MYBPC3) Monoclonal Antibody

Cat. No.: VD10N55

Product Type: Animal-targeted Antibodies

Size: 100ug

Product Overview

BioVenic mouse monoclonal antibody is specific for myosin binding protein C. It is affinity purified by protein A. It can be applied to WB, IF, IHC and Indirect ELISA assays of myosin binding protein C.

Specifications

Application	WB; IF; IHC; Indirect ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	O11N55
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Myosin Binding Protein C
Isotype	IgG1
Immunogen	Recombinant protein of myosin binding protein C
Purification	Protein A Purified
Concentration	1 mg/mL
Conjugation	Unconjugated
Buffer	Phosphate Buffered Saline
Physical State	Liquid

Target Information

Porcine myosin binding protein C (MYBPC3) is integral to the regulation of muscle contraction by interacting with both the thick and thin filaments within the sarcomere. As a component of the thick filament, MYBPC3 plays a crucial role in stabilizing the OFF state of myosin heads and is involved in the modulation of sarcomeric function. The protein is composed of multiple domains that allow it to bridge myosin and actin filaments, influencing muscle contraction force and kinetics. Phosphorylation of MYBPC3 by various kin

ases, including protein kinase A (PKA), calcium/calmodulin-dependent protein kinase II (CaMKII), and protein kinase C (PKC), is a key regulatory mechanism that affects cardiac and skeletal muscle performance. This post-translational modification can lead to changes in the sarcomere lattice, impacting the calcium sensitivity of the thin filament and the cross-bridge cycling rates of myosin.

Target	Myosin Binding Protein C
Target Synonym	Cardiac MyBP C
Gene ID	100628050
UniProt ID	A0A5G2RF19

Shipping and Storage

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

Reference

James, Jeanne, *et al.* "Signaling and myosin-binding protein C." *Journal of Biological Chemistry* 286.12 (2011): 9913-9919.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.