

Mouse Anti-Bovine Actinin-Alpha 2 Monoclonal Antibody

Cat. No.: VD8N37

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL

Product Overview

BioVenic mouse monoclonal antibody is specific for bovine actinin-alpha 2. It can be applied to WB, IF and ICC assays of bovine actinin-alpha 2.

Specifications

Application	WB; IF; ICC
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G3N1
Host	Mouse
Target Species	Bovine
Species Reactivity	Bovine
Specificity	Bovine Actinin-Alpha2
Isotype	IgG
Immunogen	Purified recombinant bovine actinin- α 2 (C-terminus) protein fragments
Concentration	1 mg/mL
Conjugation	Unconjugated
Physical State	Liquid

Target Information

Actinin-alpha2 (ACTN2) is an essential component of the muscle cytoskeleton, particularly abundant in fast-twitch muscle fibers. It is a member of the actinin family of proteins, which are characterized by their antiparallel dimer formation and their role as cross-linkers of actin filaments. ACTN2 contributes to the stability of muscle cells by connecting the actin cytoskeleton to integrins and other structural proteins within the muscle fiber. This protein is crucial for muscle contraction and maintaining the structural integrity of muscle tissue. ACTN2's function in muscle is so significant that mutations in the ACTN2 gene have been associated with various muscular disorders, including certain types of congenital myopathies.

Target	Bovine Actinin-Alpha2
Target Synonym	ACTN2; Alpha-actinin-2
UniProt ID	Q3ZC55

Shipping and Storage

This product is shipped with ice gel packs. Store at -20°C (up to 12 months) on receipt. Avoid repeated freezing and thawing as this may denature the antibody.

Reference

Casella, James F., *et al.* "Interaction of Cap Z with actin. The NH2-terminal domains of the alpha 1 and beta subunits are not required for actin capping, and alpha 1 beta and alpha 2 beta heterodimers bind differentially to actin." *Journal of Biological Chemistry* 269.9 (1994): 6992-6998.

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.