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Mouse Anti-Bovine ATP-Citrate Synthase (ACLY) Monoclonal Antibody

Cat. No.: VD8N46

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL

Product Overview

BioVenic mouse monoclonal antibody is specific for bovine ATP-citrate synthase. It can be applied to WB, IF, ICC and FCM assays of bovine ATP-citrate synthase.

Specifications

Application	WB; IF; ICC; FCM
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G3N10
Host	Mouse
Target Species	Bovine
Species Reactivity	Bovine
Specificity	Bovine ATP-Citrate Synthase
Isotype	IgG
Immunogen	Purified recombinant bovine ATP-citrate synthase (C-terminus) protein fragments
Concentration	1 mg/mL
Conjugation	Unconjugated
Physical State	Liquid

Target Information

ATP-citrate synthase (ACLY) is a key regulatory enzyme involved in the conversion of citrate to cytosolic acetyl-CoA, a reaction tha t is essential for fatty acid synthesis and cholesterol production. This enzyme catalyzes the ATP-dependent cleavage of citrate to yi eld acetyl-CoA and oxaloacetate, with the acetyl-CoA serving as a building block for fatty acid synthesis and cholesterol while the o xaloacetate can enter the tricarboxylic acid (TCA) cycle. ACLY is a critical node in metabolic pathways, integrating signals from vari ous cellular processes, including nutrient availability and energy status. Its activity is tightly regulated at multiple levels, including tr

anscriptional, post-translational, and allosteric mechanisms, to balance the cellular demand for lipid production and energy metabol ism.

Target	Bovine ATP-Citrate Synthase
Target Synonym	ACLY; ATP-citrate synthase
Gene ID	511135
UniProt ID	Q32PF2

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

Wei, Xuepeng, *et al*. "Allosteric role of the citrate synthase homology domain of ATP citrate lyase." *Nature Communications* 14.1 (2 023): 2247.