

Mouse Anti-Porcine Structural Maintenance of Chromosomes 1 (SMC1) Monoclonal Antibody

Cat. No.: VD8N146

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL

Product Overview

BioVenic mouse monoclonal antibody is specific for porcine structural maintenance of chromosomes 1. It can be applied to WB, IHC, IF and FCM assays of porcine structural maintenance of chromosomes 1.

Specifications

Application	WB; IHC; IF; FCM
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G4N9
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Porcine Structural Maintenance of Chromosomes 1
Isotype	IgG
Immunogen	Purified recombinant porcine structural maintenance of chromosomes 1 (N-terminus) protein fragments
Concentration	1 mg/mL
Conjugation	Unconjugated
Physical State	Liquid

Target Information

Structural maintenance of chromosomes 1 (SMC1) is a crucial protein involved in the maintenance and proper segregation of sister chromatids during cell division. As part of the cohesin complex, SMC1 plays a vital role in chromosome cohesion, which ensures that duplicated chromosomes stay connected until they are correctly segregated during mitosis. SMC1's function is essential for preventing

enting aneuploidy, a condition where cells have an abnormal number of chromosomes, which can lead to developmental disorders and cancer. The protein is involved in various aspects of DNA metabolism, including DNA repair, recombination, and replication.

Target	Porcine Structural Maintenance of Chromosomes 1
Target Synonym	SMC1A; DXS423E
Gene ID	100523938
UniProt ID	F2Z5A8

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

Akhmedov, Alexandre T., *et al.* "Structural maintenance of chromosomes protein C-terminal domains bind preferentially to DNA with secondary structure." *Journal of Biological Chemistry* 273.37 (1998): 24088-24094.

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.