

Mouse Anti-Porcine CD45 Monoclonal Antibody

Cat. No.: VD8N200

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL; 150uL

Product Overview

BioVenic mouse monoclonal antibody is specific for CD45. It is affinity purified by protein A. It can be applied to WB, IHC, IF-P and ELISA assays of CD45 molecule.

Specifications

Application	WB; IHC; IF-P; ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G5N13
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	CD45
Isotype	IgG2
Immunogen	Recombinant protein of CD45
Purification	Protein A Purified
Concentration	2000 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 CD45, known as the "leukocyte common antigen," is a protein tyrosine phosphatase that is widely expressed on the surface of all nucleated hematopoietic cells in pigs, including T cells, B cells, and macrophages. It is a key regulator of immune cell signal

ing pathways, playing a critical role in the activation, proliferation, and function of these cells. CD45 acts by dephosphorylating specific tyrosine residues on target proteins, thereby modulating signal transduction. This activity is essential for the proper functioning of the immune system, as it helps to fine-tune the response to antigens and maintain immune homeostasis. Disruptions in CD45 function can lead to various immunodeficiencies and autoimmune diseases. Targeting CD45 in pigs can provide insights into the mechanisms of immune regulation and may offer therapeutic approaches for managing immune-related conditions in veterinary medicine.

Target	CD45
Target Synonym	L CA; GP180
Gene ID	100522631
UniProt ID	Q6SZ85

Shipping and Storage

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

Reference

Pokoyski, Claudia, *et al.* "Expression of viral CD45 ligand E3/49K on porcine cells reduces human anti-pig immune responses." *Scientific reports* 13.1 (2023): 17218.

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.