

Mouse Anti-Porcine V-Type Proton ATPase Catalytic Subunit A (ATP6V1A) Monoclonal Antibody

Cat. No.: VD8N462

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL; 150uL

Product Overview

BioVenic mouse monoclonal antibody is specific for V-type proton ATPase catalytic subunit A. It is affinity purified by protein A. It can be applied to WB, IHC and ELISA assays of V-type proton ATPase catalytic subunit A.

Specifications

Application	WB; IHC; ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G10N10
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	V-Type Proton ATPase Catalytic Subunit A
Isotype	IgG2
Immunogen	Recombinant protein of V-type proton ATPase catalytic subunit A
Purification	Protein A Purified
Concentration	1000 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 V-type proton ATPase catalytic subunit A (pATP6V1A) is a critical component of the V-type proton ATPase, an enzyme complex that actively transports protons across cellular membranes in pigs. This enzyme plays a vital role in maintaining the acidification of intracellular compartments such as lysosomes, endosomes, and secretory vesicles, which is essential for various cellular processes including protein degradation, antigen presentation, and neurotransmitter release. pATP6V1A is the catalytic subunit of the V1 sector of the ATPase, which is responsible for ATP hydrolysis. This hydrolysis reaction provides the energy needed to drive the transport of protons against their concentration gradient, from the cytosol to the lumen of the organelles.

Target	V-Type Proton ATPase Catalytic Subunit A
Target Synonym	ATP6A1; ATP6V1A
Gene ID	445531
UniProt ID	Q29048

Shipping and Storage

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

Reference

Wang, Pin, *et al.* "Expression and transcriptional regulation of human ATP6V1A gene in gastric cancers." *Scientific reports* 7.1 (2017): 3015.

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.