

Mouse Anti-Porcine Alanine Aminotransferase 1 (ALT1) Monoclonal Antibody

Cat. No.: VD10N26

Product Type: Animal-targeted Antibodies

Size: 100ug

Product Overview

BioVenic mouse monoclonal antibody is specific for alanine aminotransferase 1. It is affinity purified by protein A. It can be applied to WB, IF and Indirect ELISA assays of alanine aminotransferase 1.

Specifications

Application	WB; IF; Indirect ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	O11N26
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Alanine Aminotransferase 1
Isotype	IgG1
Immunogen	Recombinant protein of alanine aminotransferase 1
Purification	Protein A Purified
Concentration	1 mg/mL
Conjugation	Unconjugated
Buffer	Phosphate Buffered Saline
Physical State	Liquid

Target Information

Porcine alanine aminotransferase 1 (ALT1) is a crucial enzyme involved in the metabolic pathways of amino acids, specifically catalyzing the transfer of an amino group from alanine to α -ketoglutarate to form pyruvate and glutamate. This enzyme is widely distributed in various tissues of the pig, with particularly high expression levels in the liver, making it a sensitive indicator of liver damage when its levels are elevated in serum. However, it is also expressed in other tissues such as the kidneys, skeletal muscle, and gastro

intestinal tract, which can complicate the interpretation of serum ALT levels as a liver-specific marker. In pigs, ALT1 plays a vital role in gluconeogenesis and provides energy for muscle contraction and other physiological processes. Its high sensitivity to liver cell damage makes it a valuable diagnostic tool in veterinary medicine for monitoring liver health and detecting liver diseases such as hepatitis and cirrhosis. The enzyme's activity can also be influenced by factors like diet, exercise, and certain medications, which should be considered when interpreting serum ALT levels.

Target	Alanine Aminotransferase 1
Target Synonym	AAT1
Gene ID	100524618
UniProt ID	P13191

Shipping and Storage

This product is shipped with ice gel packs. Store at -80°C on receipt.

Reference

DeRosa, G., *et al.* "Metabolic implications of the distribution of the alanine aminotransferase isoenzymes." *Journal of Biological Chemistry* 250.20 (1975): 7961-7967.

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.