

Mouse Anti-Porcine Heme Oxygenase 1 (HMOX1) Monoclonal Antibody

Cat. No.: VD8N190

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL; 150uL

Product Overview

BioVenic mouse monoclonal antibody is specific for heme oxygenase 1. It is affinity purified by protein A. It can be applied to WB, IF, IHC and ELISA, FC assays of heme oxygenase 1.

Specifications

Application	WB; IF; IHC; ELISA; FC
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G5N3
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Heme Oxygenase 1
Isotype	IgG2
Immunogen	Recombinant protein of heme oxygenase 1
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 heme oxygenase 1 (HO-1), also known as heat shock protein 32 (HSP32), is a stress-responsive enzyme found in pigs. It is a key member of the heat shock protein family and plays a significant role in the cellular response to oxidative stress, inflammation

n, and other forms of cellular injury. HO-1 catalyzes the degradation of heme, a component of hemoglobin, into biliverdin, iron, and carbon monoxide, which are all involved in various physiological and pathophysiological processes. The enzyme's expression is up regulated in response to various stimuli, including heat shock, ultraviolet radiation, and cytokines, serving as a cytoprotective mechanism. HO-1's induction is associated with anti-inflammatory, antioxidant, and anti-apoptotic properties, making it a critical target for research into diseases characterized by oxidative stress and inflammation, such as sepsis and ischemia-reperfusion injuries.

Target	Heme Oxygenase 1
Target Synonym	bK286B10
Gene ID	445512
UniProt ID	P32394

Shipping and Storage

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

Reference

Araujo, Jesus A., *et al.* "Heme oxygenase-1, oxidation, inflammation, and atherosclerosis." *Frontiers in pharmacology* 3 (2012): 119.

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.