

Mouse Anti-Porcine Bone Morphogenetic Protein 2 (BMP2) Monoclonal Antibody

Cat. No.: VD8N201

Product Type: Animal-targeted Antibodies

Size: 50uL; 100uL; 150uL

Product Overview

BioVenic mouse monoclonal antibody is specific for bone morphogenetic protein 2. It is affinity purified by protein A. It can be applied to WB, IHC and ELISA assays of bone morphogenetic protein 2.

Specifications

Application	WB; IHC; ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	G5N14
Host	Mouse
Target Species	Porcine
Species Reactivity	Porcine
Specificity	Bone Morphogenetic Protein 2
Isotype	IgG2
Immunogen	Recombinant protein of bone morphogenetic protein 2
Purification	Protein A Purified
Concentration	1400 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 bone morphogenetic protein 2 (pBMP-2) is a member of the transforming growth factor-beta (TGF-β) superfamily and plays a pivotal role in the regulation of bone formation and repair in pigs. BMP-2 is a potent osteoinductive factor that stimulates the diff

ifferentiation of mesenchymal stem cells into osteoblasts, the cells responsible for bone matrix synthesis. It is involved in various stages of bone healing, from the initiation of the healing process to the formation of new bone tissue. The targeted delivery of pBMP-2 has been shown to enhance bone regeneration in orthopedic and dental applications, making it an important target for tissue engineering and regenerative medicine. Understanding the molecular mechanisms of pBMP-2 action can aid in the development of novel therapies for bone-related disorders and improve the outcomes of bone grafting procedures in veterinary and human medicine.

Target	Bone Morphogenetic Protein 2
Target Synonym	BMP 2
Gene ID	100157103
UniProt ID	A0A286ZZE2

Shipping and Storage

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

Reference

Halloran, Daniel, *et al.* "Bone morphogenetic protein-2 in development and bone homeostasis." *Journal of developmental biology* 8.3 (2020): 19.

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.