

Mouse Anti-Bovine Osteocalcin (BGLAP) Monoclonal Antibody

Cat. No.: VD11N943

Product Type: Animal-targeted Antibodies

Size: 200 µg

Product Overview

BioVenic mouse monoclonal antibody is specific for bovine osteocalcin. It can be applied to ELISA assay of bovine osteocalcin.

Specifications

Application	ELISA
Clonality	Monoclonal
Classification	Primary Antibody
Clone	J20N31
Host	Mouse
Target Species	Bovine
Species Reactivity	Bovine
Specificity	Bovine Osteocalcin
Isotype	IgG2
Immunogen	Recombinant protein of osteocalcin
Concentration	1 mg/mL
Conjugation	Unconjugated
Preservative and Stabilizer	Sodium Azide
Buffer	Phosphate Buffered Saline
Physical State	Liquid

Target Information

Bovine osteocalcin, also known as bone gamma-carboxyglutamate (Gla) protein, is a non-collagenous protein synthesized primarily by osteoblasts and constitutes 1-2% of total bone protein. It is a key component in bone metabolism, playing a crucial role in bone formation, resorption, and mineralization. Osteocalcin binds strongly to hydroxyapatite crystals in the bone matrix through its gamma-carboxyglutamate residues, which are formed via a vitamin K-dependent carboxylation process. This binding enhances the protein's affinity for calcium ions, facilitating its role in bone mineralization.

Target	Bovine Osteocalcin
Target Synonym	BGLAP
Gene ID	281646
UniProt ID	P02820

Shipping and Storage

This product is shipped with wet ice packs. Store at -20°C on receipt (up to 12 months). Avoid repeated freezing and thawing as this may denature the antibody.

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.