

Anti-MGP Antibody Picoband® Biotin Conjugated

Catalog Number: PB9954-Biotin

About MGP

Matrix Gla protein (MGP) is an 84-residue vitamin K-dependent protein initially isolated from bovine bone. In addition, MGP is a 10-kD protein produced and secreted by vascular smooth muscle cells and chondrocytes and significantly accumulated in bone, cartilage, and dentin. It is also expressed at high levels in heart, kidney, and lung and is upregulated by vitamin D in bone cells. MGP has a high affinity binding to calcium ions, similar to other Gla-containing proteins. The protein acts as an inhibitor of vascular mineralization and plays a role in bone organization. And this gene is mapped to 12p12.3.

Overview

Product Name	Anti-MGP Antibody Picoband® Biotin Conjugated
Reactive Species	Human
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P08493

Technical Details

Immunogen	E.coli-derived human MGP recombinant protein (Position: Y20-F96). Human MGP shares 84.4% and 80.5% amino acid (aa) sequence identity with mouse and rat MGP, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	Western blot, Optimal dilutions should be determined by end users. Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.

ELISA, Optimal dilutions should be determined by end users.

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