

Anti-MGP Picoband Antibody
Catalog # ABO12639**Specification**

Anti-MGP Picoband Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P08493
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Matrix Gla protein(MGP) detection. Tested with WB, IHC-P in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-MGP Picoband Antibody - Additional Information

Gene ID 4256

Other Names

Matrix Gla protein, MGP, Cell growth-inhibiting gene 36 protein, MGP, MGLAP

Calculated MW

12353 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted.

Protein Name

Matrix Gla protein

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

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.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-MGP Picoband Antibody - Protein Information

Name MGP

Synonyms MGLAP

Function

Associates with the organic matrix of bone and cartilage. Thought to act as an inhibitor of bone formation.

Cellular Location

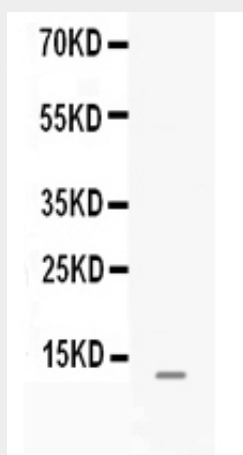
Secreted.

Anti-MGP Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

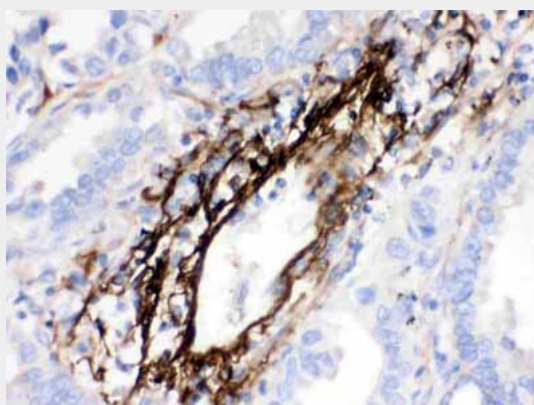
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-MGP Picoband Antibody - Images



Western blot analysis of MGP expression in JURKAT whole cell lysates (lane 1). MGP at 12KD was detected using rabbit anti- MGP Antigen Affinity purified polyclonal antibody (Catalog #

ABO12639) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



MGP was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-MGP Antigen Affinity purified polyclonal antibody (Catalog # ABO12639) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Anti-MGP Picoband Antibody - Background

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.