

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

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**Anti-MGP Picoband Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P08493</a>
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<br><br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted.

**Protein Name**

Matrix Gla protein

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**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**

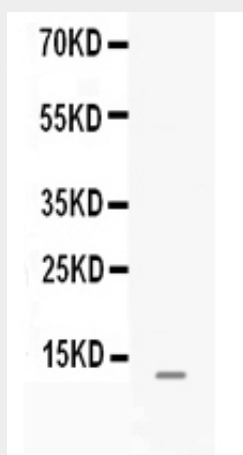
Secreted.

### Anti-MGP Picoband Antibody - Protocols

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

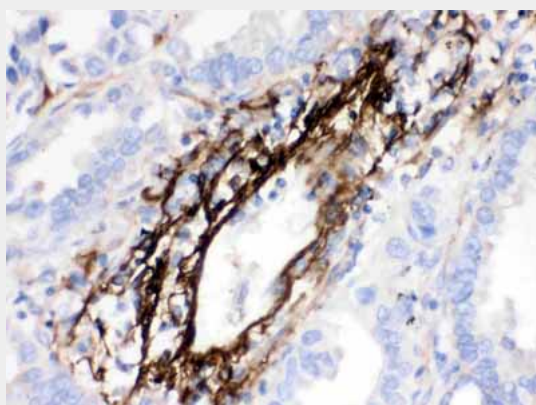
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### 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.