

Anti-MGP Picoband Antibody

Catalog # ABO12639

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.

Additional Information

Gene ID	4256
Other Names	Matrix Gla protein, MGP, Cell growth-inhibiting gene 36 protein, MGP, MGLAP
Calculated MW	12353
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.
Source	Eukaryota
Protein Name	Matrix Gla protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

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.

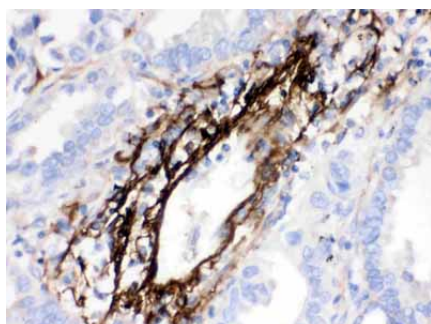
Background

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.

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 .

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