

Datasheet for ABIN4886666
anti-MGP antibody (AA 20-96)

2 Images

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Overview

Quantity:	100 µg
Target:	MGP
Binding Specificity:	AA 20-96
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Matrix Gla protein(MGP) detection. Tested with WB, IHC-P in Human.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Matrix Gla protein(MGP) detection. Tested with WB, IHC-P in Human. Gene Name: matrix Gla protein Protein Name: Matrix Gla protein
Purification:	Immunogen affinity purified.

Target Details

Target:	MGP
Alternative Name:	MGP (MGP Products)
Background:	<p>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.</p> <p>Synonyms: GIG36 Matrix Gla protein MGLAP MGP NTI P08493</p>
Gene ID:	4256
UniProt:	P08493

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

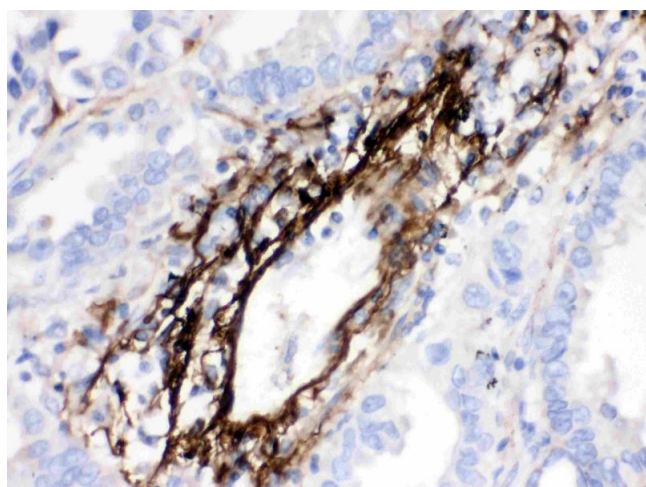
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.

Images



Immunohistochemistry

Image 1. MGP was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- MGP Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 2. 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 #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).