

Rabbit MGP Polyclonal Antibody | anti-MGP antibody

Anti-MGP Antibody

CATALOG # AAA46622	HOST Rabbit	REACTIVITY Human No cross reactivity with other proteins.	APPLICATIONS Immunohistochemistry, Western Blot
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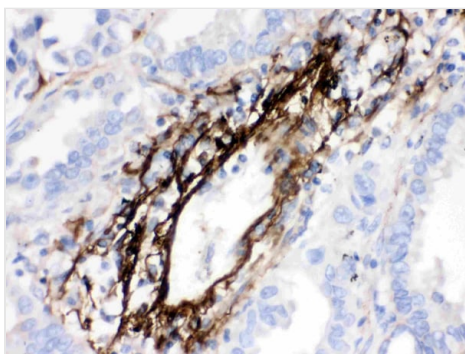
PRODUCT SYNONYMS

MGP; Polyclonal Antibody; Anti-MGP Antibody; GIG36; Matrix Gla protein; MGLAP; NTI; P08493; anti-MGP antibody

PRODUCT SPECIFICATIONS

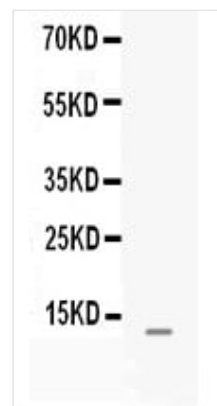
Host	Rabbit
Reactivity	Human No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	103
Applicable Applications for anti-MGP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived 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.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

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



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-MGP antibody	Rabbit IgG polyclonal antibody for Matrix Gla protein (MGP) detection. 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.
References	1. Hur, D. J., Raymond, G. V., Kahler, S. G., Riegert-Johnson, D. L., Cohen, B. A., Boyadjiev, S. A. A novel MGP mutation in a consanguineous family: review of the clinical and molecular characteristics of Keutel syndrome. Am. J. Med. Genet. 135A: 36-40, 2005. 2. Luo G, Ducey P, McKee MD, Pinero GJ, Loyer E, Behringer RR, Karsenty G (March 1997). "Spontaneous calcification of arteries and cartilage in mice lacking matrix GLA protein". Nature 386 (6620): 78-81. 3. Yao Y, Jumabay M, Ly A, Radparvar M, Cubberly MR, Boström KI (2013). "A role for the endothelium in vascular calcification". Circ. Res. 113 (5): 495-504.

NCBI AND UNIPROT INFORMATION

NCBI GI #	49574514
NCBI GeneID	4256
NCBI Accession #	NP_000891.2
NCBI GenBank Nucleotide #	NM_000900.3
UniProt Accession #	P08493; Q2TU41; Q567P9; Q6ICN5; A0M8W5; B2R519; J3KMX7
Molecular Weight	15,325 Da
NCBI Official Full Name	matrix Gla protein isoform 2
NCBI Official Synonym Full Names	matrix Gla protein
NCBI Official Symbol	MGP
NCBI Official Synonym Symbols	NTI; GIG36; MGLAP
NCBI Protein Information	matrix Gla protein
UniProt Protein Name	Matrix Gla protein
UniProt Gene Name	MGP
UniProt Synonym Gene Names	MGLAP; MGP
UniProt Entry Name	MGP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.