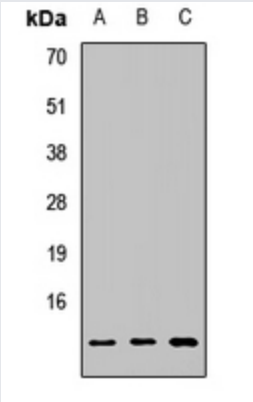
MGP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MGP, Polyclonal Antibody
Full Product Name	Anti-MGP Antibody
Product Gene Name	anti-MGP antibody
Product Synonym Names	MGLAP; Matrix Gla protein; MGP; Cell growth-inhibiting gene 36 protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	Purified by immunogen affinity chromatography
Specificity	Recognizes endogenous levels of MGP protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	15,325 Da
OMIM	M58549 mRNA
3D Structure	ModBase 3D Structure for P08493
Immunogen	Recombinant full length protein of human MGP
Applications Tested/Suitable for anti-MGP antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-MGP antibody	WB: 1/500 - 1/2000 IHC: 1/50 - 1/200
Related Product Information for anti-MGP antibody	MBS8292196 is an antibody targeting MGP. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to MGP
Other Notes	Small volumes of anti-MGP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-MGP antibody
Western blot analysis of MGP expression in MCF7 (A), mouse lung (B), mouse heart (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MGP. It may not necessarily be applicable to this product.

NCBI GI #	49574514
NCBI GeneID	4256
NCBI Accession #	NP_000891.2
UniProt Primary Accession #	P08493
UniProt Secondary Accession #	Q2TU41; Q567P9; Q6ICN5; A0M8W5; B2R519; J3KMX7
UniProt Related Accession #	P08493
GenBank Nucleotide #	NM_000900.4
NCBI Official Full Name	matrix Gla protein isoform 2 preproprotein
NCBI Official Synonym Full Names	matrix Gla protein
NCBI Official Symbol	MGP
NCBI Official Synonym Symbols	NTI; GIG36; MGLAP
UniProt Protein Name	Matrix Gla protein
UniProt Synonym Protein Names	Cell growth-inhibiting gene 36 protein
Protein Family	Matrix Gla protein
UniProt Gene Name	MGP
UniProt Synonym Gene Names	MGLAP; MGP
NCBI Protein Information	matrix Gla protein
NCBI Summary for MGP	This gene encodes a member of the osteocalcin/matrix Gla family of proteins. The encoded vitamin K-dependent protein is secreted by chondrocytes and vascular smooth muscle cells, and functions as a physiological inhibitor of ectopic tissue calcification. Carboxylation status of the encoded protein is associated with calcification of the vasculature in human patients with cardiovascular disease and calcification of the synovial membranes in osteoarthritis patients. Mutations in this gene cause Keutel syndrome in human patients, which is characterized by abnormal cartilage calcification, peripheral pulmonary stenosis and facial hypoplasia. [provided by RefSeq, Sep 2016]
UniProt Comments for MGP	Associates with the organic matrix of bone and cartilage. Thought to act as an inhibitor of bone formation.

Research Articles on MGP	**1.** Our results indicate that the association between the matrix Gla protein variant and increased risk for hand Osteoarthritis is caused by a lower expression of matrix Gla protein, which may increase the burden of hand Osteoarthritis by decreased inhibition of cartilage calcification.
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