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MGP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11953c

Specification

MGP Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P08493
Other Accession	NP_000891.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**37-66**

MGP Antibody (Center) - Additional Information

Gene ID 4256

Other Names
Matrix Gla protein, MGP, Cell growth-inhibiting gene 36 protein, MGP, MGLAP

Target/Specificity
This MGP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 37-66 amino acids from the Central region of human MGP.

Dilution
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MGP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

MGP Antibody (Center) - 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.

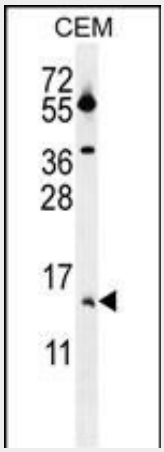
Cellular Location
Secreted.

MGP Antibody (Center) - Protocols

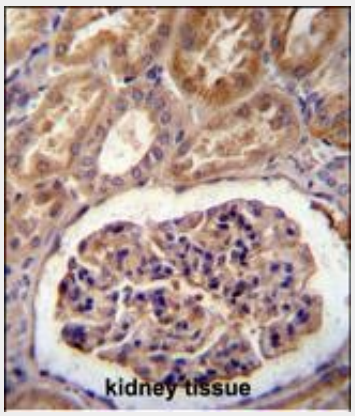
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MGP Antibody (Center) - Images



MGP Antibody (Center) (Cat. #AP11953c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MGP antibody detected the MGP protein (arrow).



MGP Antibody (Center) (Cat. #AP11953c)immunohistochemistry analysis in formalin fixed and

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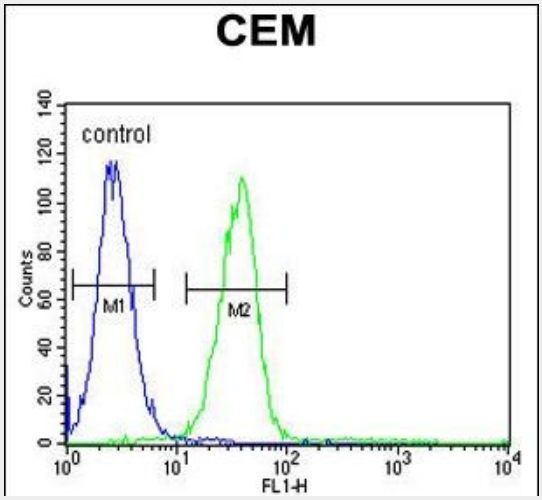
paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MGP Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



MGP Antibody (Center) (Cat. #AP11953c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

MGP Antibody (Center) - Background

The protein encoded by this gene is secreted and likely acts as an inhibitor of bone formation. The encoded protein is found in the organic matrix of bone and cartilage. Defects in this gene are a cause of Keutel syndrome (KS). Two transcript variants encoding different isoforms have been found for this gene.

MGP Antibody (Center) - References

Romero, R., et al. Am. J. Obstet. Gynecol. (2010) In press :
Bailey, S.D., et al. Diabetes Care (2010) In press :
Parker, B.D., et al. Ann. Intern. Med. 152(10):640-648(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 202 (5), 431 (2010) :
Schurgers, L.J., et al. Clin J Am Soc Nephrol 5(4):568-575(2010)

MGP Antibody (Center) - Citations

- Microenvironmental reprogramming by three-dimensional culture enables dermal papilla cells to induce de novo human hair-follicle growth.