

## MGP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11953c

### Product Information

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<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">P08493</a>
<b>Other Accession</b>	<a href="#">NP_000891.2</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB12536
<b>Calculated MW</b>	12353
<b>Antigen Region</b>	37-66

### Additional Information

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<b>Gene ID</b>	4256
<b>Other Names</b>	Matrix Gla protein, MGP, Cell growth-inhibiting gene 36 protein, MGP, MGLAP
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	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.
<b>Precautions</b>	MGP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

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<b>Name</b>	MGP
<b>Synonyms</b>	MGLAP
<b>Function</b>	Associates with the organic matrix of bone and cartilage. Thought to act as

an inhibitor of bone formation.

#### Cellular Location

Secreted.

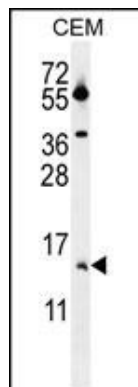
## Background

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.

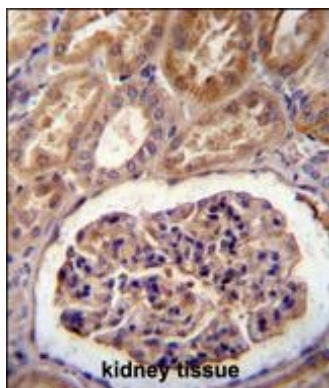
## References

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)

## Images

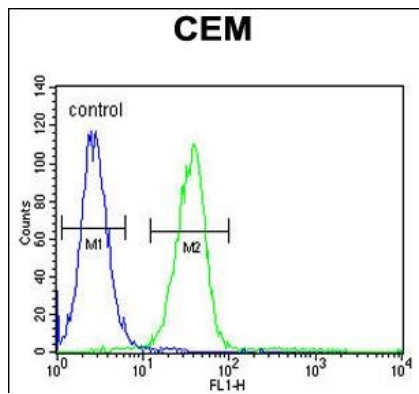


MGP Antibody (Center) (Cat. #AP11953c) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the MGP antibody detected the MGP protein (arrow).



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



## Citations

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.