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MGP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11953c

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
Clone Names	RB12536
Calculated MW	12353
Antigen Region	37-66

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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	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.
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.

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.

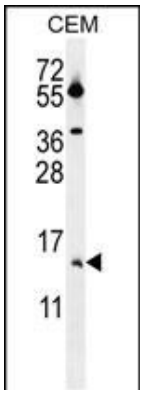
Background

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.

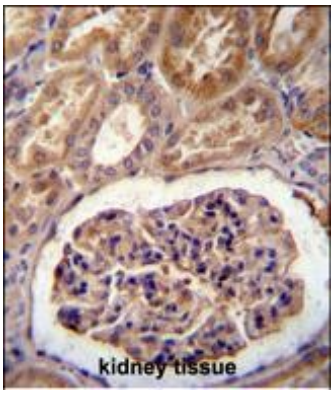
References

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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

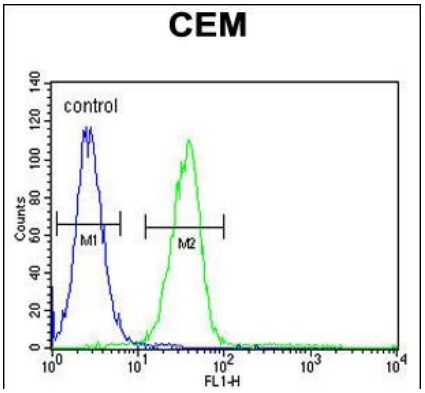


MGP Antibody (Center) (Cat. #AP11953c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the MGP antibody detected the MGP protein (arrow).



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

- 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'.