

Human Matrix Gla Protein (MGP) ELISA Kit | MGP elisa kit

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CATALOG #
AAA331778

REACTIVITY
Human

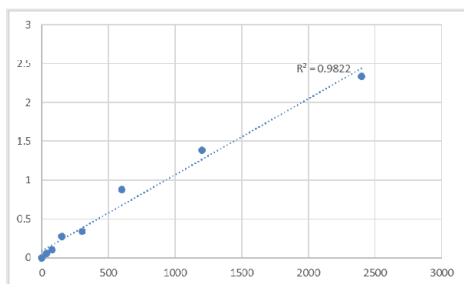
PRODUCT SYNONYMS

Matrix Gla Protein (MGP); Human Matrix Gla Protein (MGP) ELISA Kit; MGP; GIG36; MGLAP; NTI; MGP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Matrix Gla Protein (MGP) ELISA Kit has high sensitivity and excellent specificity for detection of Human MGP. No significant cross-reactivity or interference between Human MGP and analogues was observed.
Sequence Length	103
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Matrix Gla Protein (MGP) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MGP elisa kit	Description: This Human Matrix Gla Protein (MGP) ELISA Kit employs a two-site sandwich ELISA to quantitate MGP in samples. An antibody specific for MGP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MGP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MGP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MGP bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: MGP 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 MGP cause Keutel syndrome in human patients, which is characterized by abnormal cartilage calcification, peripheral pulmonary stenosis and facial hypoplasia.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	187591
NCBI GeneID	4256
UniProt Accession #	P08493
NCBI Official Full Name	matrix Gla protein
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/matrix-gla-protein-mgp/331778>