

Human Matrix Gla Protein ELISA Kit | MGP elisa kit

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CATALOG #
AAA85371

REACTIVITY
Human

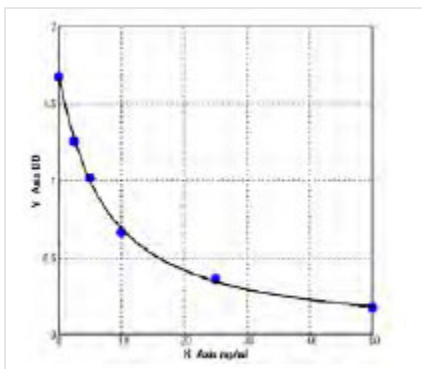
PRODUCT SYNONYMS

Matrix Gla Protein; Human Matrix Gla Protein ELISA Kit; MGP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of MGP. No significant cross-reactivity or interference between MGP and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between MGP and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MGP elisa kit	Intended Uses: This MGP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human MGP. This ELISA kit for research use only! Principle of the Assay: MGP ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-MGP antibody and an MGP-HRP conjugate. The assay sample and buffer are incubated together with MGP-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MGP concentration since MGP from samples and MGP-HRP conjugate compete for the anti-MGP antibody binding site. Since the number of sites is limited, as more sites are occupied by MGP from the sample, fewer sites are left to bind MGP-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MGP concentration in each sample is interpolated from this standard curve.
Product Categories/Family for MGP elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	47496663
NCBI GeneID	4256
UniProt Accession #	P08493; Q2TU41; Q567P9; Q6ICN5; A0M8W5; B2R519; J3KMX7
Molecular Weight	15,325 Da
NCBI Official Full Name	MGP, partial
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; cell growth-inhibiting gene 36 protein
UniProt Protein Name	Matrix Gla protein
UniProt Gene Name	MGP
UniProt Synonym Gene Names	MGLAP; GIG36; 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.