

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

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CATALOG #
AAA136526

REACTIVITY
Rat

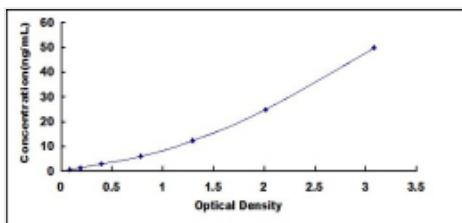
PRODUCT SYNONYMS

Matrix Gla Protein (MGP); Rat Matrix Gla Protein (MGP) ELISA Kit; MGLAP; GIG36; Cell growth-inhibiting gene 36 protein; MGP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Matrix Gla Protein (MGP). No significant cross-reactivity or interference between Matrix Gla Protein (MGP) and analogues was observed.
Sequence Length	103
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.78-50ng/mL
Sensitivity	0.29ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Matrix Gla Protein (MGP) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Matrix Gla Protein (MGP) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MGP elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Matrix Gla Protein (MGP). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Matrix Gla Protein (MGP). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Matrix Gla Protein (MGP), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Matrix Gla Protein (MGP) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for MGP elisa kit	Metabolic pathway; Hematology; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	187591
NCBI GeneID	4256
UniProt Accession #	P08493; Q2TU41; Q567P9; Q6ICN5; A0M8W5; B2R519; J3KMX7
Molecular Weight	15,325 Da
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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/matrix-gla-protein-mgp/136526>