

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

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CATALOG #
AAA63521

REACTIVITY
Rat

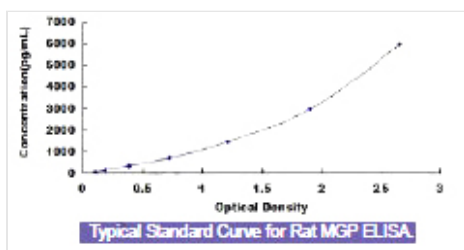
PRODUCT SYNONYMS

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 MGP. No significant cross-reactivity or interference between MGP and analogues was observed.
Sequence Length	103
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Assay Type	Sandwich
Detection Range	93.75-6000pg/mL
Sensitivity	39.65pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level MGP were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level MGP were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MGP elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of MGP in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to MGP. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to 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 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 MGP in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6981204
NCBI GeneID	25333
NCBI Accession #	NP_036994.1
NCBI GenBank Nucleotide #	NM_012862.1
UniProt Accession #	P08494
Molecular Weight	12,037 Da
NCBI Official Full Name	matrix Gla protein
NCBI Official Synonym Full Names	matrix Gla protein
NCBI Official Symbol	Mgp
NCBI Official Synonym Symbols	Mglap
NCBI Protein Information	matrix Gla protein
UniProt Protein Name	Matrix Gla protein
UniProt Gene Name	Mgp
UniProt Synonym Gene Names	MGP

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.