

Human Maltase Glucoamylase, Intestinal (MGA) ELISA Kit | MGA elisa kit

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CATALOG #
AAA20516

REACTIVITY
Human

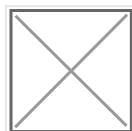
PRODUCT SYNONYMS

Maltase Glucoamylase; Intestinal (MGA); Human Maltase Glucoamylase; Intestinal (MGA) ELISA Kit; MGAM; Glucan 1; 4-Alpha-Glucosidase; MGA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of MGA. No significant cross-reactivity or interference between MGA and analogues was observed.
Sequence Length	1,857
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Range	1.56-100ng/mL
Sensitivity	0.64ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level MGA 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 MGA were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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 MGA elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of MGA in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to MGA. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to MGA. 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 MGA, 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 MGA in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for MGA elisa kit	Enzyme & Kinase; Metabolic pathway; Gastroenterology
References	Proteomic analysis-based discovery of a novel biomarker that differentiates intestinal Behçet's disease from Crohn's disease; Sci Rep; 2021 May 26;11(1):11019.; PMID: 34040049; Jihye Park; Department of Internal Medicine, Yonsei University College of Medicine, 50-Yonsei-ro, Seodaemun-gu, Seoul, 03722, Korea.

NCBI AND UNIPROT INFORMATION

NCBI GI #	221316699
NCBI GeneID	8972
NCBI Accession #	NP_004659.2
NCBI GenBank Nucleotide #	NM_004668.2
UniProt Accession #	O43451; Q0VAX6; Q75ME7; Q86UM5
Molecular Weight	209,852 Da
NCBI Official Full Name	maltase-glucoamylase, intestinal
NCBI Official Synonym Full Names	maltase-glucoamylase
NCBI Official Symbol	MGAM
NCBI Official Synonym Symbols	MG; MGA
NCBI Protein Information	maltase-glucoamylase, intestinal
UniProt Protein Name	Maltase-glucoamylase, intestinal
UniProt Gene Name	MGAM
UniProt Synonym Gene Names	MGA; MGAML
UniProt Entry Name	MGA_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.