

Mouse Glucose-6-Phosphatase, Catalytic (G6PC) ELISA Kit | G6PC elisa kit

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CATALOG #
AAA187443

REACTIVITY
Mouse

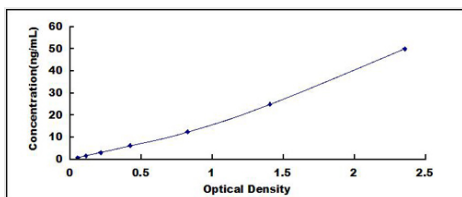
PRODUCT SYNONYMS

Glucose-6-Phosphatase; Catalytic (G6PC); Mouse Glucose-6-Phosphatase; Catalytic (G6PC) ELISA Kit; G6PT; GSD1a; Glycogen Storage Disease Type I; von Gierke Disease; Glucose-6-phosphatase alpha; G6PC elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Glucose-6-Phosphatase, Catalytic (G6PC). No significant cross-reactivity or interference between Glucose-6-Phosphatase, Catalytic (G6PC) and analogues was observed.
Sequence Length	176
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue Homogenates and Other Biological Fluids
Detection Range	0.781-50ng/mL
Sensitivity	< 0.33ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Glucose-6-Phosphatase, Catalytic (G6PC) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Glucose-6-Phosphatase, Catalytic (G6PC) 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 G6PC 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 Glucose-6-Phosphatase, Catalytic (G6PC). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Glucose-6-Phosphatase, Catalytic (G6PC). 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 Glucose-6-Phosphatase, Catalytic (G6PC), 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 Glucose-6-Phosphatase, Catalytic (G6PC) 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 #	206729864
NCBI GeneID	2538
UniProt Accession #	P35575; A1L4C0; B4E1C3; K7EL82
Molecular Weight	20,209 Da
NCBI Official Full Name	Glucose-6-phosphatase
NCBI Official Synonym Full Names	glucose-6-phosphatase catalytic subunit
NCBI Official Symbol	G6PC
NCBI Official Synonym Symbols	G6PT; GSD1; G6PC1; GSD1a; G6Pase
NCBI Protein Information	glucose-6-phosphatase
UniProt Protein Name	Glucose-6-phosphatase
UniProt Gene Name	G6PC
UniProt Synonym Gene Names	G6PT; G-6-Pase; G6Pase; G6Pase-alpha

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/mouse-elisa-kits/glucose-6-phosphatase-catalytic-g6pc/187443>