

Human Glucose-6-Phosphatase, Catalytic (G6PC) CLIA Kit | G6PC clia kit

Glucose-6-Phosphatase, Catalytic (G6PC) CLIA Kit

CATALOG # AAA189328	REACTIVITY Human	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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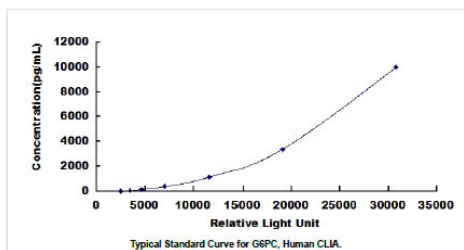
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of G6PC. No significant cross-reactivity or interference between G6PC and analogues was observed.
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	13.7-10,000pg/mL
Sensitivity	< 6.2pg/mL
Applicable Applications for G6PC clia kit	CLIA (Chemiluminescence Immunoassay)
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level G6PC 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 G6PC 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 G6PC clia kit	Intended Uses: The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of G6PC 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 G6PC. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to G6PC. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the G6PC level in the sample or standard.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	206729864
NCBI GeneID	2538
UniProt Accession #	P35575; A1L4C0; B4E1C3; K7EL82
Molecular Weight	40,484 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
NCBI Protein Information	glucose-6-phosphatase; G6Pase; G-6-Pase; G6Pase-alpha; glucose-6-phosphatase alpha
UniProt Protein Name	Glucose-6-phosphatase
UniProt Gene Name	G6PC
UniProt Synonym Gene Names	G6PT; G-6-Pase; G6Pase
UniProt Entry Name	G6PC_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/human-clia-kits/glucose-6-phosphatase-catalytic-g6pc/189328>