

Human Glucokinase (GCK) CLIA Kit | GCK clia kit

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CATALOG # AAA188962	REACTIVITY Human	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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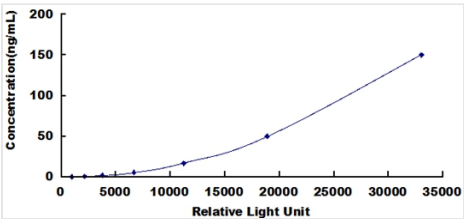
PRODUCT SYNONYMS

Glucokinase (GCK); Human Glucokinase (GCK) CLIA Kit; Glucokinase; GK; GLK; HHF3; HK4; HKIV; HXKP; MODY2; Hexokinase-D; Hexokinase 4; Maturity Onset Diabetes Of The Young 2; GCK clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Glucokinase (GCK). No significant cross-reactivity or interference between Glucokinase (GCK) and analogues was observed.
Sequence Length	465
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates and other biological fluids
Detection Range	0.21-150ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.08ng/mL
Applicable Applications for GCK clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Glucokinase (GCK) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Glucokinase (GCK) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Glucokinase (GCK). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Glucokinase (GCK). 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 Glucokinase (GCK) level in the sample or standard.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	547696
NCBI GeneID	2645
UniProt Accession #	P35557
NCBI Official Full Name	Hexokinase-4
NCBI Official Synonym Full Names	glucokinase
NCBI Official Symbol	GCK
NCBI Official Synonym Symbols	GK; GLK; HK4; HHF3; HKIV; HXKP; LGLK; MODY2; PNDM1; FGQTL3
NCBI Protein Information	hexokinase-4
UniProt Protein Name	Glucokinase
UniProt Gene Name	GCK
UniProt Synonym Gene Names	HK IV; HK4
UniProt Entry Name	HXK4_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/glucokinase-gck/188962>