

Canine Glucokinase ELISA Kit | GCK elisa kit

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 CATALOG #
AAA92592

 REACTIVITY
Canine

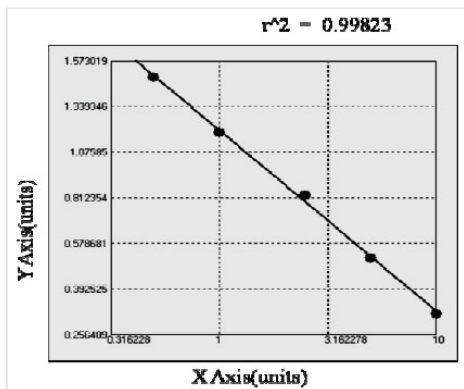
PRODUCT SYNONYMS

Glucokinase; Canine Glucokinase ELISA Kit; GCK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for GCK elisa kit	For samples: Serum, plasma, cell culture supernatants, body fluid and tissue homogenate INTENDED USE This GCK ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine GCK. This ELISA kit for research use only! PRINCIPLE OF THE ASSAY GCK ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-GCK antibody and an GCK-HRP conjugate. The assay sample and buffer are incubated together with GCK-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the GCK concentration since GCK from samples and GCK-HRP conjugate compete for the anti-GCK antibody binding site. Since the number of sites is limited, as more sites are occupied by GCK from the sample, fewer sites are left to bind GCK-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The GCK concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7110599
NCBI GeneID	24385
NCBI Accession #	NP_036697.1
NCBI GenBank Nucleotide #	NM_012565.2
Molecular Weight	51,919 Da
NCBI Official Full Name	glucokinase isoform 2
NCBI Official Synonym Full Names	glucokinase
NCBI Official Symbol	Gck
NCBI Official Synonym Symbols	GLUKA; RNGK2
NCBI Protein Information	glucokinase; HK4; HK IV; hexokinase-4; hexokinase-D; hexokinase type IV; glucokinase variant 3
UniProt Protein Name	Glucokinase
UniProt Gene Name	Gck
UniProt Synonym Gene Names	HK IV; HK4
UniProt Entry Name	HXK4_RAT

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.