

Datasheet for ABIN734558

anti-GCK antibody (AA 101-200)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	GCK
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human GCK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	GCK
Alternative Name:	GCK/Glucokinase (GCK Products)

Target Details

Background:	<p>Synonyms: GK, GLK, HK4, HHF3, HKIV, HXKP, LGLK, MODY2, FGQTL3, Glucokinase, Hexokinase type IV, HK IV, Hexokinase-4, Hexokinase-D, GCK</p> <p>Background: Catalyzes the initial step in utilization of glucose by the beta-cell and liver at physiological glucose concentration. Glucokinase has a high Km for glucose, and so it is effective only when glucose is abundant. The role of GCK is to provide G6P for the synthesis of glycogen. Pancreatic glucokinase plays an important role in modulating insulin secretion. Hepatic glucokinase helps to facilitate the uptake and conversion of glucose by acting as an insulin-sensitive determinant of hepatic glucose usage.</p>
Gene ID:	2645
UniProt:	P35557
Pathways:	MAPK Signaling , Positive Regulation of Peptide Hormone Secretion , Carbohydrate Homeostasis , Cellular Glucan Metabolic Process , Regulation of Carbohydrate Metabolic Process

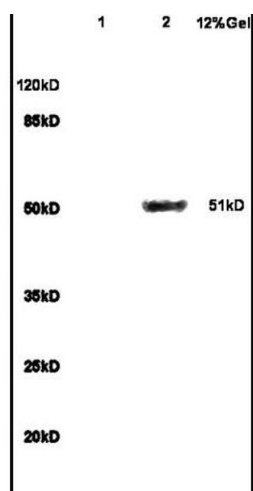
Application Details

Application Notes:	<p>WB 1:300-5000</p> <p>ELISA 1:500-1000</p> <p>FCM 1:20-100</p> <p>IHC-P 1:200-400</p>
Restrictions:	For Research Use only

Handling

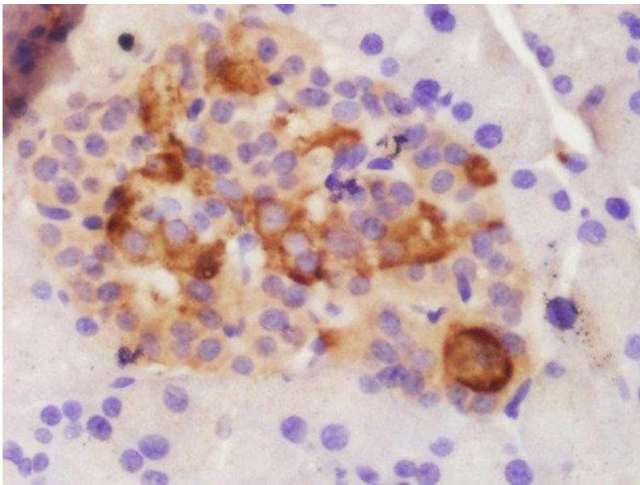
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Product cited in: Wang, Liu, Chen, Duan, Chen, Xi: "Effects of a Novel Glucokinase Activator, HMS5552, on Glucose Metabolism in a Rat Model of Type 2 Diabetes Mellitus." in: **Journal of diabetes research**, Vol. 2017, pp. 5812607, (2017) ([PubMed](#)).



SDS-PAGE

Image 1. Lane 1: mouse brain lysates Lane 2: mouse liver lysates probed with Anti GCK/Glucokinase Polyclonal Antibody, Unconjugated (ABIN734558) at 1:200 in 4C. Followed by conjugation to secondary antibody at 1:3000 90min in 37C. Predicted band 51kD. Observed band size: 51kD



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded rat pancreas labeled with Anti-GCK/Glucokinase Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining