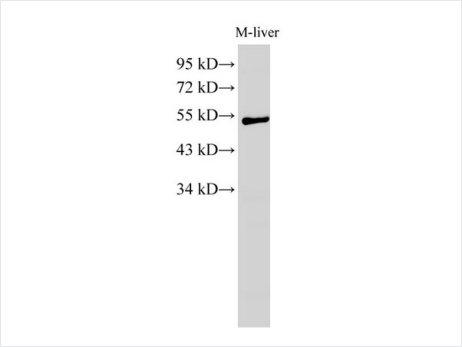
GCK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GCK, Polyclonal Antibody
Full Product Name	GCK Polyclonal Antibody
Product Gene Name	anti-GCK antibody
Product Synonym Names	ATP:D-hexose 6-phosphotransferase; FGQTL3; GCK; GK; GLK; Glucokinase; Hexokinase D pancreatic isozyme; Hexokinase type IV; Hexokinase-4; Hexokinase-D; HHF3; HK IV; HK4; HKIV; HXK4; HXKP; LGLK; MODY2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 50% glycerol, pH7.3.
Purity/Purification	Antigen Affinity Purification
Concentration	1 mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	Calculated: 52 kDa Observed: 52kDa
3D Structure	ModBase 3D Structure for P52792
Immunogen	Recombinant Mouse Glucokinase protein
Conjugation	Unconjugated
Product Categories/Family for anti-GCK antibody	Cancer; Metabolism; Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-GCK antibody	Western Blot (WB)
Application Notes for anti-GCK antibody	WB: 1:1000-1:2000
Related Product Information for anti-GCK antibody	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. Alternative splicing of this gene results in three tissue-specific forms of glucokinase, one found in pancreatic islet beta cells and two found in liver. The protein localizes to the outer membrane of mitochondria. In contrast to other forms of hexokinase, this enzyme is not inhibited by its product glucose-6-phosphate but remains active while glucose is abundant. Mutations in this gene have been associated with non-insulin dependent diabetes mellitus (NIDDM), maturity onset diabetes of the young, type 2 (MODY2) and persistent hyperinsulinemic hypoglycemia of infancy (PHHI).
Other Notes	Small volumes of anti-GCK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GCK purchase	MBS2554102 is an antibody targeting GCK. Also known as GCK Polyclonal Antibody. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-GCK antibody
Western Blot analysis of Mouse liver using Gck Polyclonal Antibody at dilution of 1:1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GCK. It may not necessarily be applicable to this product.

NCBI GI #	565671715
NCBI GeneID	103988
NCBI Accession #	NP_001274315.1
UniProt Primary Accession #	P52792
UniProt Secondary Accession #	P52791
UniProt Related Accession #	P52792
GenBank Nucleotide #	NM_001287386.1
NCBI Official Full Name	glucokinase isoform 2
NCBI Official Synonym Full Names	glucokinase
NCBI Official Symbol	Gck
NCBI Official Synonym Symbols	Gk; GLK; HK4; HKIV; HXKP; Hlb62; MODY2; Gls006
UniProt Protein Name	Glucokinase
UniProt Synonym Protein Names	Hexokinase type IV; HK IV; Hexokinase-4; HK4; Hexokinase-D
Protein Family	Glycerate 2-kinase
UniProt Gene Name	Gck
UniProt Synonym Gene Names	Gk; HK IV; HK4
NCBI Protein Information	glucokinase
UniProt Comments for GCK	Catalyzes the initial step in utilization of glucose by the beta-cell and liver at physiological glucose concentration. 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.
Research Articles on GCK	**1.** These data also imply an etiological role of GCK in diet-induced diabetes.
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