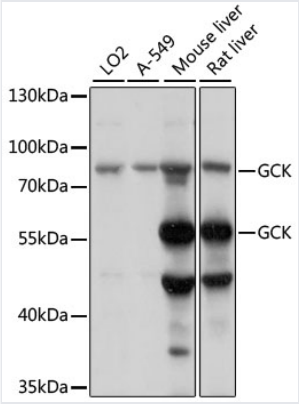
GCK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GCK, Polyclonal Antibody
Full Product Name	GCK Rabbit Polyclonal Antibody
Product Gene Name	anti-GCK antibody
Product Synonym Names	GCK; FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	465
OMIM	phenotype 606391
3D Structure	ModBase 3D Structure for P35557
Immunogen	Recombinant fusion protein of human GCK (NP_000153.1).
Product Categories/Family for anti-GCK antibody	Primary Antibody
Applications Tested/Suitable for anti-GCK antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GCK antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
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	MBS9465195 is an antibody targeting GCK. Also known as GCK Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-GCK antibody
Western blot analysis of extracts of various cell lines, using GCK at 1:1000 dilution.

ADDITIONAL DETAILS

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

NCBI GI #	547696
NCBI GeneID	2645
NCBI Accession #	P35557.1
UniProt Primary Accession #	P35557
UniProt Secondary Accession #	Q05810; A4D2J2; A4D2J3
UniProt Related Accession #	P35557
NCBI Official Full Name	Glucokinase
NCBI Official Synonym Full Names	glucokinase (hexokinase 4)
NCBI Official Symbol	GCK
NCBI Official Synonym Symbols	GK; GLK; HK4; HHF3; HKIV; HXKP; LGLK; MODY2; FGQTL3
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	HK IV; HK4
UniProt Entry Name	HXK4_HUMAN
NCBI Protein Information	glucokinase; HK IV; hexokinase-4; hexokinase-D; hexokinase type IV; hexokinase D, pancreatic isozyme; ATP:D-hexose 6-phosphotransferase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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