

Product datasheet for **AM06654SU-N**

Glucokinase (GCK) Mouse Monoclonal Antibody [Clone ID: 4G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4G6
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 1/500 - 1/2000. ELISA: 1/10000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human GCK expressed in E. Coli.
Specificity:	This antibody reacts to GCK.
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	52 kDa
Gene Name:	glucokinase
Database Link:	Entrez Gene 2645 Human P35557



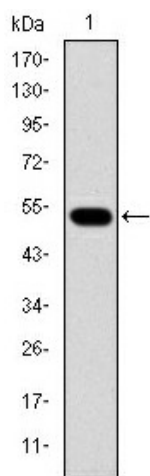
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Background:

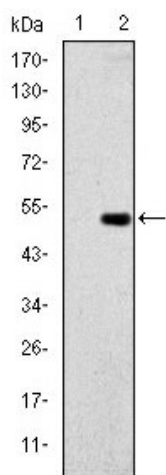
Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. Alternative splicing of this gene results in three tissue-specific forms of glucokinase, one found in pancreatic islet beta cells and two found in liver. The protein localizes to the 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).

Synonyms:

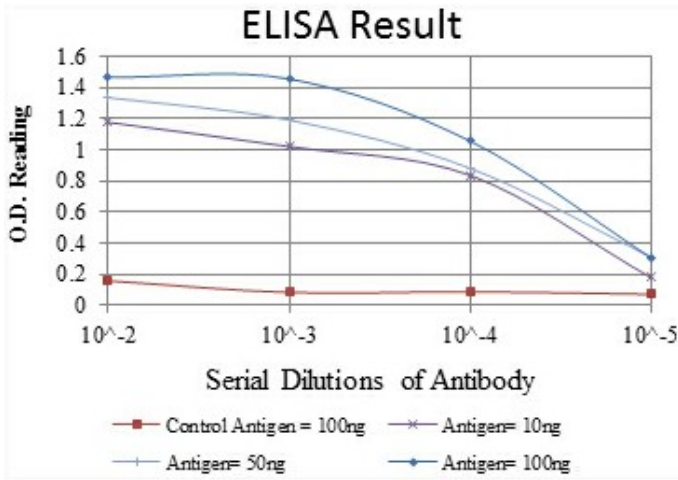
Hexokinase type IV, Hexokinase-D, GCK, HK4, HKIV

Product images:

Western blot analysis using GCK mAb against human GCK (AA: 1-198) recombinant protein. (Expected MW is 48.2 kDa)



Western blot analysis using GCK mAb against HEK293 (1) and GCK-hlgGfc transfected HEK293 (2) cell lysate.



Red: Control Antigen (100ng) Purple: Antigen (10ng) Green: Antigen (50ng) Blue: Antigen (100ng)