



Anti-GCK monoclonal antibody, clone 4F4 (DCABH-542)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to GLK
Antigen Description	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 insulinsensitive determinant of hepatic glucose usage.
Immunogen	Protein expressed in 293T cells transfected with Human GLK (NM_000162) expression vector
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	4F4
Purification	Purified from mouse ascite fluid by affinity chromatography
Conjugate	Unconjugated
Applications	WB, IHC-P, Flow Cyt, ICC/IF
Positive Control	HEK293T transfected lysate COS7 transfected cells Human breast, breast carcinoma, kidney, kidney carcinoma, lung, lung carcinoma, pancreas, thyroid carcinoma or prostrate carcinoma tissue.
Format	Liquid

45-1 Ramsey Road, Shirley, NY 11967, USA

Tel: 1-631-624-4882 Fax: 1-631-938-8221

Size	100 μΙ
Buffer	pH: 7.30; Preservative: 0.02% Sodium azide; Constituents: 1% BSA, 50% Glycerol, 48% PBS
Preservative	0.02% Sodium Azide
Storage	Store at -20°C. Stable for 12 months at -20°C

GENE INFORMATION

Gene Name	GCK glucokinase (hexokinase 4) [Homo sapiens]
Official Symbol	GCK
Synonyms	GCK; glucokinase (hexokinase 4); maturity onset diabetes of the young 2, MODY2; glucokinase; HK4; HK IV; hexokinase-4; hexokinase-D; hexokinase type IV; hexokinase D, pancreatic isozyme; ATP:D-hexose 6-phosphotransferase; GK; GLK; HHF3; HKIV; HXKP; LGLK;
Entrez Gene ID	<u>2645</u>
Protein Refseq	NP 000153
UniProt ID	<u>P35557</u>
Chromosome Location	7p15.3-p15.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Butirosin and neomycin biosynthesis, organism-specific biosystem; Butirosin and neomycin biosynthesis, conserved biosystem; Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; GDP-glucose biosynthesis, organism-specific biosystem.
Function	ATP binding; glucokinase activity; glucose binding; kinase activity; nucleotide binding; protein binding; transferase activity;

 ${\it Email: info@creative-diagnostics.com}$

Tel: 1-631-624-4882 Fax: 1-631-938-8221