



Anti-G6PC monoclonal antibody (DCABH-11640)

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

PRODUCT INFORMATION

Antigen Description	Glucose-6-phosphatase is an integral membrane protein of the endoplasmic reticulum that catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate. It is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Defects in the enzyme cause glycogen storage disease type I (von Gierke disease).
Immunogen	A synthetic peptide of human G6PC is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	G6PC glucose-6-phosphatase, catalytic subunit [Homo sapiens]
Official Symbol	G6PC

Synonyms	G6PC; glucose-6-phosphatase, catalytic subunit; G6PT, glucose 6 phosphatase, catalytic (glycogen storage disease type I, von Gierke disease); glucose-6-phosphatase; glycogen storage disease type I; von Gierke disease; GSD1a; G6Pase; G-6-Pase; G6Pase-alpha; glucose-6-phosphatase alpha; G6PT; GSD1; G6PC1; MGC163350;
Entrez Gene ID	2538
Protein Refseq	NP_000142
UniProt ID	P35575
Chromosome Location	17q21
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; FoxO family signaling, organism-specific biosystem; Galactose metabolism, organism-specific biosystem;
Function	glucose-6-phosphatase activity; hydrolase activity; phosphate ion binding; phosphotransferase activity, alcohol group as acceptor;