



Anti-G6PC (catalytic domainn) polyclonal antibody (CPBT-35447RH)

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

PRODUCT INFORMATION

Product Overview	Rabbit Polyclonal antibody to Human G6PC.
Antigen Description	Glucose-6-phosphatase (G6Pase) is a multi-subunit integral membrane protein of the endoplasmic reticulum that is composed of a catalytic subunit and transporters for G6P, inorganic phosphate, and glucose. This gene (G6PC) is one of the three glucose-6-phosphatase catalytic-subunit-encoding genes in human: G6PC, G6PC2 and G6PC3. Glucose-6-phosphatase catalyzes the hydrolysis of D-glucose 6-phosphate to D-glucose and orthophosphate and is a key enzyme in glucose homeostasis, functioning in gluconeogenesis and glycogenolysis. Mutations in this gene cause glycogen storage disease type I (GSD1). This disease, also known as von Gierke disease, is a metabolic disorder characterized by severe hypoglycemia associated with the accumulation of glycogen and fat in the liver and kidneys.
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 300 to the C-terminus of Human glucose-6-phosphatase, catalytic subunit.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Immunogen affinity purified
Conjugate	Unconjugated
Applications	WB
Sequence Similarities	Belongs to the glucose-6-phosphatase family.
Cellular Localization	Endoplasmic reticulum membrane.

Format	Liquid
Size	100 µg
Buffer	pH: 7.40Preservative:0.02% Sodium azideConstituent:PBSNote: Batches of this product that have a concentration
Preservative	0.02% Sodium Azide
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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; GSD1; AW107337; G-6-Pase; G6Pase; G6Pase-alpha; G6PC; G6PC_HUMAN; G6PT; Glucose-6-phosphatase alpha; Glucose-6-phosphatase; GSD1a; MGC163350; MGC93613; RP23-281C18.19; G6Pase; G-6-Pase; G6Pase-alpha; glucose-6-phosphatase alpha; G6PT; GSD1; G6PC1;
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; Galactose metabolism, conserved biosystem; Glucose transport, organism-specif
Function	glucose-6-phosphatase activity; hydrolase activity; phosphate ion binding; phosphotransferase activity, alcohol group as acceptor;