bs-21524R **[Primary Antibody]**

G6PC Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 14377 **SWISS:** P35576

Target: G6PC

Immunogen: KLH conjugated synthetic peptide derived from mouse Glucose 6 phosphatase alpha : 301-357/357. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.[provided by RefSeq, Feb 2011]

Applications: **ELISA** (1:5000-10000)

Reactivity: Mouse (predicted: Rat)

Predicted MW.: 39 kDa

Subcellular Location: Cell membrane ,Cytoplasm

SELECTED CITATIONS

- **[IF=8.025]** Bing Yang. et al. Polysaccharide from Hovenia dulcis (Guaizao) improves pancreatic injury and regulates liver glycometabolism to alleviate STZ-induced type 1 diabetes mellitus in rats. INT J BIOL MACROMOL. 2022 Jun;: WB ;Rat. 35764168
- **[IF=6.317]** Mubai Sun. et al. Black bean husk and black rice anthocyanin extracts modulated gut microbiota and serum metabolites for improvement in type 2 diabetic rats. FOOD FUNCT. 2022 Jun;: WB ;Rat. 35730792
- **[IF=4.927]** Zhaoyang Li. et al. Chemical Constituents and Hypoglycemic Mechanisms of Dendrobium nobile in Treatment of Type 2 Diabetic Rats by UPLC-ESI-Q-Orbitrap, Network Pharmacology and In Vivo Experimental Verification. MOLECULES. 2023 Jan;28(6):2683 WB ;Rat. 36985655