bs-21523R **[Primary Antibody]**

G6PC Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2538 **SWISS:** P35575

Target: G6PC

Immunogen: KLH conjugated synthetic peptide derived from human Glucose 6 phosphatase alpha: 1-100/357.

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]

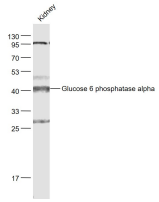
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (0.2ug/test)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Pig, Sheep, Cow, Dog)

Predicted MW.: 39 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Kidney (Mouse) Lysate at 40 ug Primary: Anti- Glucose 6 phosphatase alpha (bs-21523R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 39 kD

SELECTED CITATIONS

- **[IF=6.1]** Fan Wu. et al. Oxyberberine Inhibits Hepatic Gluconeogenesis via AMPK-Mediated Suppression of FoxO1 and CRTC2 Signaling Axes. PHYTOTHER RES. 2024 Nov;: WB ;Mouse,Human. 39522954
- **[IF=4.268]** Fan Wu. et al. A bioinformatics and transcriptomics based investigation reveals an inhibitory role of Huanglian-Renshen-Decoction on hepatic glucose production of T2DM mice via PI3K/Akt/FoxO1 signaling pathway. Phytomedicine. 2021 Mar;83:153487 WB ;Mouse. 33636476
- **[IF=1.662]** Jen‐Ying Hsu. et al. Aqueous extract from Pepino (Solanum muricatum Ait.) leaves ameliorated insulin resistance, hyperlipidemia, and hyperglycemia in mice with metabolic syndrome. J Food Biochem. 2020 Dec;44(12):e13518 WB ;Mouse. 33047354

- **[IF=1.662]** Chao Xin. et al. Hawthorn polyphenols, D-chiro-inositol, and epigallocatechin gallate exert a synergistic hypoglycemic effect. 2021 May 24 WB ;Mouse. 34028050