Data Sheet (Cat.No.TMAB-00724)

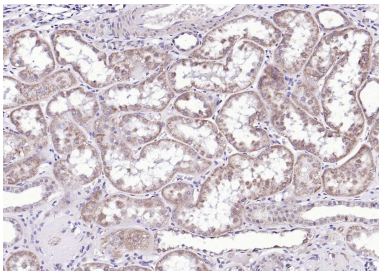
Anti-G6PC Polyclonal Antibody

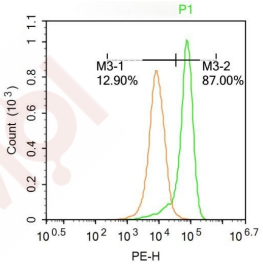
Product Details

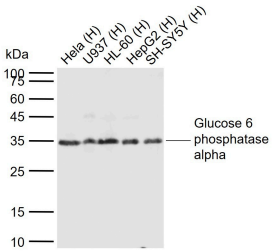
Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep)
Molecular Weight:	Theoretical: 39 kDa. Actual: 35 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Glucose 6 phosphatase alpha) Polyclonal Antibody, Unconjugated (TMAB-00724) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructionsand DAB staining. 2. U-937 cells were incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with TMAB-00724 Antibody at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange). 3. Sample: Lane 1: Human Hela cell lysates Lane 2: Human U937cell lysates Lane 3: Human HL-60 cell lysates Lane 4: Human HepG2 cell lysates Lane 5: Human SH-SY5Y cell lysates Primary: Anti-Glucose 6 phosphatase alpha (TMAB-00724) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kDa Observed band size: 35 kDa







Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended: WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 0.2ug/test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human Glucose 6 phosphatase alpha

Antigen Species: Human

Gene ID: 2538

Uniprot ID: P35575

Synonyms: G6PT;Glucose-6-phosphatase catalytic subunit 1;G6PC;Glucose-6-phosphatase (G-6-Pase; G6Pase);Glucose-6-phosphatase alpha (G6Pase-alpha);G6PC1

Biology Area: Metabolism of carbohydrates,Other Antibodies,Carbohydrate metabolism,Cancer

Research 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]

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