

Product datasheet for **TA334652**

glucose 6 phosphatase, catalytic subunit (G6PC) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-G6PC antibody: synthetic peptide directed towards the N terminal of human G6PC. Synthetic peptide located within the following region: NLVFKWILFGQRPYWWLDTDYYSNTSVPLIKQFPVTCETGPGSPSGHAM
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	40 kDa
Gene Name:	glucose-6-phosphatase catalytic subunit
Database Link:	NP_000142 Entrez Gene 2538 Human P35575

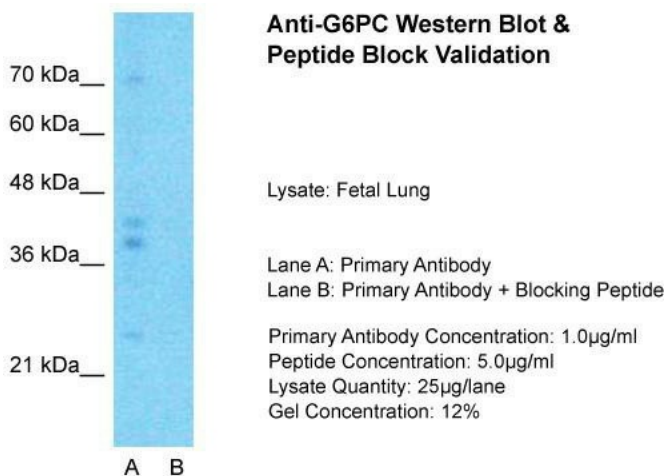


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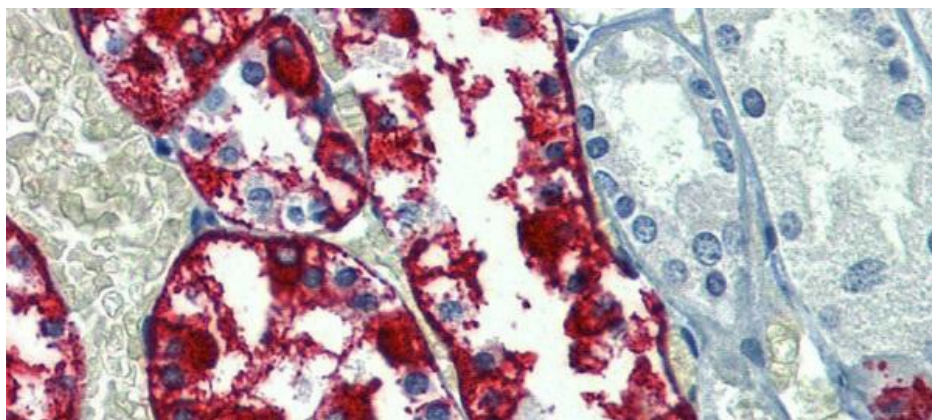
Background:	G6PC hydrolyzes glucose-6-phosphate to glucose in the endoplasmic reticulum. It forms with the glucose-6-phosphate transporter (SLC37A4/G6PT) the complex responsible for glucose production through glycogenolysis and gluconeogenesis. Hence, it is the key enzyme in homeostatic regulation of blood glucose levels. 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). Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Synonyms:	G6PC1; G6PT; GSD1; GSD1a
Note:	Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Human: 100%; Sheep: 100%; Rat: 93%; Horse: 93%; Bovine: 93%; Rabbit: 93%; Guinea pig: 93%; Mouse: 86%
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism

Product images:

WB Suggested Anti-G6PC Antibody Titration: 1 ug/ml; Positive Control: Fetal Lung cell lysate



Host: Rabbit; Target Name: G6PC; Sample Tissue: Human Fetal Lung; Lane A: Primary Antibody; Lane B: Primary Antibody + Blocking Peptide; Primary Antibody Concentration: 1 ug/ml; Peptide Concentration: 5 ug/ml; Lysate Quantity: 25 ug/lane/lane; Gel Concent



Immunohistochemistry with Human kidney lysate tissue