

Rabbit anti-Human G6PC Polyclonal Antibody | anti-G6PC antibody

G6PC Antibody (Center)

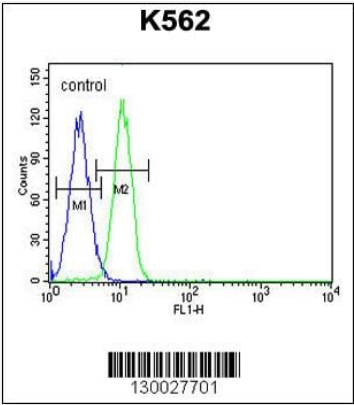
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA287191	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

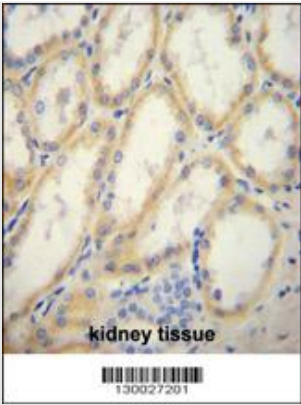
G6PC; Polyclonal Antibody; G6PC Antibody (Center); Glucose-6-phosphatase; G-6-Pase; G6Pase; Glucose-6-phosphatase alpha; G6Pase-alpha; G6PT; anti-G6PC antibody

PRODUCT SPECIFICATIONS

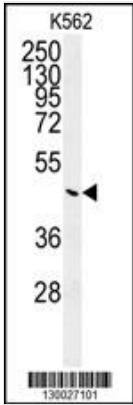
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This G6PC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 123-149 amino acids from the Central region of human G6PC.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	123-149
Sequence Length	176
Applicable Applications for anti-G6PC antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Function	Hydrolyzes glucose-6 phosphate to glucose in the endoplasmic reticulum. 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.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



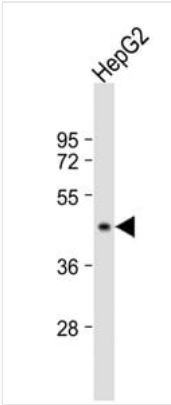
FCM/FACS (Flow Cytometry)
G6PC Antibody (Center) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
G6PC Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the G6PC Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of G6PC Antibody (Center) in K562 cell line lysates (35ug/lane). G6PC (arrow) was detected using the purified Pab.



WB (Western Blot)
Anti-G6PC Antibody (Center) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution. Predicted band size: 40 kDa . Blocking/Dilution buffer: 5% NFDm/TBST .

ADDITIONAL INFORMATION

Related Product Information for anti-G6PC antibody	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.
Product Categories/Family for anti-G6PC antibody	Cancer; Cell Biology; Metabolism
References	Tu, E., et al. Hum. Pathol. 41(3):392-400(2010) Samuel, V.T., et al. Proc. Natl. Acad. Sci. U.S.A. 106(29):12121-12126(2009) Hu, C., et al. Diabetologia 52(3):451-456(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	393537031
NCBI GeneID	2538
NCBI Accession #	NP_000142.2; NP_001257326.1
NCBI GenBank Nucleotide #	NM_000151.3
UniProt Accession #	P35575; A1L4C0; B4E1C3; K7EL82

NCBI Official Full Name	glucose-6-phosphatase isoform 1
NCBI Official Synonym Full Names	glucose-6-phosphatase, catalytic subunit
NCBI Official Symbol	G6PC
NCBI Official Synonym Symbols	G6PT; GSD1; G6PC1; GSD1a
NCBI Protein Information	glucose-6-phosphatase
UniProt Protein Name	Glucose-6-phosphatase
UniProt Gene Name	G6PC
UniProt Synonym Gene Names	G6PT; G-6-Pase; G6Pase; G6Pase-alpha
UniProt Entry Name	G6PC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/g6pc-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/287191>