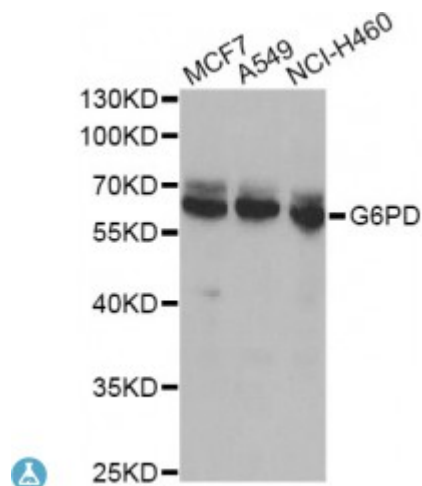


Anti-G6PD Antibody



Description

This gene encodes glucose-6-phosphate dehydrogenase. This protein is a cytosolic enzyme encoded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electron donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is remarkable for its genetic diversity. Many variants of G6PD, mostly produced from missense mutations, have been described with wide ranging levels of enzyme activity and associated clinical symptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-spherocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found for this gene.

Model	STJ115918
Host	Rabbit
Reactivity	Human, Mouse
Applications	IF, WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 246-545 of human G6PD (NP_000393.4).
Gene ID	2539
Gene Symbol	G6PD
Dilution range	WB 1:500 - 1:2000 IF 1:50 - 1:200
Tissue Specificity	Isoform Long is found in lymphoblasts, granulocytes and sperm
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Glucose-6-phosphate 1-dehydrogenase G6PD
Molecular Weight	59.257 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:4057OMIM:300908Reactome:R-HSA-5628897
Alternative Names	Glucose-6-phosphate 1-dehydrogenase G6PD
Function	Catalyzes the rate-limiting step of the oxidative pentose-phosphate pathway, which represents a route for the dissimilation of carbohydrates besides glycolysis, The main function of this enzyme is to provide reducing power (NADPH) and pentose phosphates for fatty acid and nucleic acid synthesis,
Post-translational Modifications	Acetylated by ELP3 at Lys-403

St John's Laboratory Ltd

F +44 (0)207 681 2580
T +44 (0)208 223 3081

W <http://www.stjohnslabs.com/>
E info@stjohnslabs.com