



Rabbit Anti-Human G6PD Polyclonal Antibody (CABT-L2112)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Glucose 6 Phosphate Dehydrogenase (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against G6PD. It has been selected for its ability to recognize G6PD in immunohistochemical staining and western blotting.
Target	G6PD
Immunogen	Recombinant fragment corresponding to human G6PD (Met1~Leu515)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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. [provided by RefSeq, Jul 2008]
Keywords	Glucose-6-phosphate 1-dehydrogenase

GENE INFORMATION

Gene Name	G6PD glucose-6-phosphate dehydrogenase [Homo sapiens (human)]
Official Symbol	G6PD
Synonyms	G6PD; glucose-6-phosphate dehydrogenase; G6PD1; glucose-6-phosphate 1-dehydrogenase;
Entrez Gene ID	2539
Protein Refseq	NP_000393
UniProt ID	P11413
Chromosome Location	Xq28
Pathway	Carbon metabolism; Central carbon metabolism in cancer; Disease; Glutathione metabolism; Glycogen storage diseases; Metabolic pathways; Metabolism; Metabolism of carbohydrates;
Function	NADP binding; glucose binding; glucose-6-phosphate dehydrogenase activity; identical protein binding; protein binding; protein homodimerization activity;