



Anti-G6PD polyclonal antibody, clone O3D2 (DPABY-718)

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

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq]

Immunogen	Recombinant fragment corresponding to a region within amino acids 100 and 322 of G6PD (Uniprot ID#P11413)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	O3D2
Purification	Purified by antigen-affinity chromatography.
Conjugate	Unconjugated
Applications	ELISA Pr*, IHC-P, WB
Molecular Weight	59 kDa
Positive Control	Molt-4
Format	Liquid

Concentration	1.01 mg/ml
Size	25 µl
Buffer	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Preservative	None
Storage	Keep as concentrated solution. Aliquot and store at -26°C or below. Avoid multiple freeze-thaw cycles.

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; Disease; Glutathione metabolism; Glycogen storage diseases; Metabolism; Metabolism of carbohydrates; Myoclonic epilepsy of Lafora; Pentose Phosphate Pathway;
Function	NADP binding; glucose binding; glucose-6-phosphate dehydrogenase activity; protein binding; protein homodimerization activity;