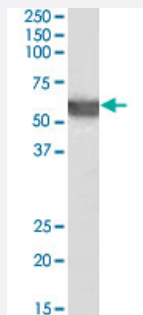


G6PD polyclonal antibody

Catalog # PAB7299

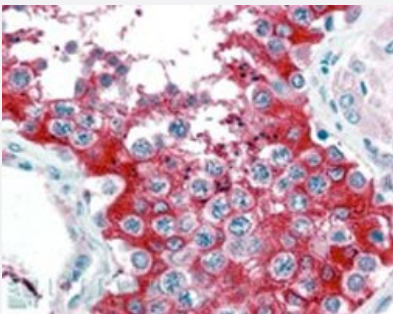
Size 100 ug

Applications



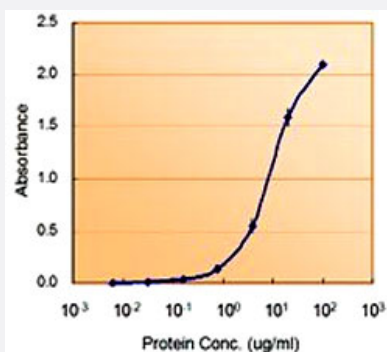
Western Blot (Tissue lysate)

G6PD polyclonal antibody (Cat # PAB7299) (0.03 ug/mL) staining of human testis lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

G6PD polyclonal antibody (Cat # PAB7299, 2.5 ug/mL) staining of paraffin embedded human testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Sandwich ELISA

G6PD polyclonal antibody (Cat # PAB7299) (5 ug/mL) as the reporter with the capture rabbit antibody (5 ug/mL).

Specification

Product Description

Goat polyclonal antibody raised against synthetic peptide of G6PD.

Immunogen	A synthetic peptide corresponding to amino acids 308-320 of human G6PD.
Sequence	C-STNSDDVRDEKVK
Host	Goat
Theoretical MW (kDa)	62.5, 59.3
Reactivity	Human
Specificity	This antibody is expected to recognize both reported isoforms (NP_00.0393.4 and NP_0010.35810.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:32000) Sandwich ELISA (5-10 ug/mL) Western blot (0.03-0.1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (2-4 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

G6PD polyclonal antibody (Cat # PAB7299) (0.03 ug/mL) staining of human testis lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

G6PD polyclonal antibody (Cat # PAB7299, 2.5 ug/mL) staining of paraffin embedded human testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

- Sandwich ELISA

G6PD polyclonal antibody (Cat # PAB7299) (5 ug/mL) as the reporter with the capture rabbit antibody (5 ug/mL).

Gene Info — G6PD

Entrez GeneID [2539](#)

Protein Accession# [NP_00.0393.4;NP_0010.35810.1](#)

Gene Name G6PD

Gene Alias G6PD1

Gene Description glucose-6-phosphate dehydrogenase

Omim ID [305900](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations OTTHUMP00000026034|glucose-6-phosphate 1-dehydrogenase|glucose-6-phosphate dehydrogenase, G6PD

Publication Reference

- [X-linked G6PD deficiency protects hemizygous males but not heterozygous females against severe malaria.](#)

Guindo A, Fairhurst RM, Doumbo OK, Wellems TE, Diallo DA.

PLoS medicine 2007 Mar; 4(3):e66.

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of plant hormones](#)
- [Glutathione metabolism](#)
- [Metabolic pathways](#)

- [Pentose phosphate pathway](#)

Disease

- [alpha-Thalassemia](#)
- [Anemia](#)
- [beta-Thalassemia](#)
- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Ketoacidosis](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Elliptocytosis](#)
- [Encephalitis](#)
- [Favism](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)
- [Glucosephosphate Dehydrogenase Deficiency](#)
- [Glycogen Storage Disease Type I](#)
- [Hemoglobinuria](#)
- [Hemolysis](#)
- [Hyperbilirubinemia](#)
- [Jaundice](#)
- [Lymphoma](#)
- [Malaria](#)

- [Metabolism](#)
- [Parasitemia](#)
- [Sickle Cell Trait](#)
- [Stroke](#)
- [Syndrome](#)
- [Thalassemia](#)
- [Wounds and Injuries](#)