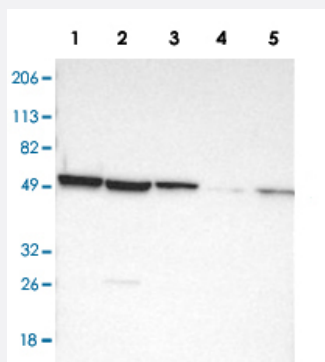


G6PD polyclonal antibody

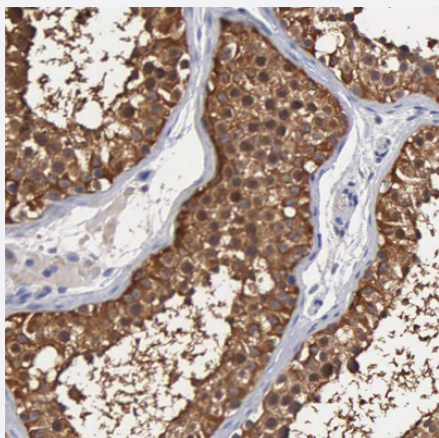
Catalog # PAB29349 Size 100 uL

Applications



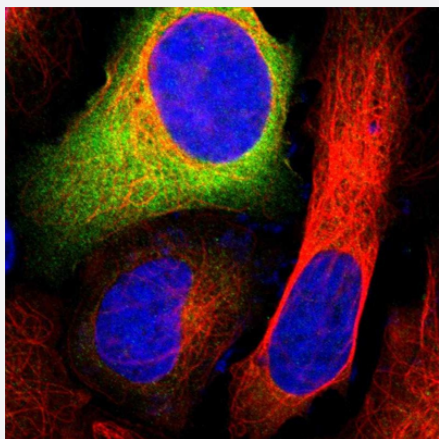
Western Blot (Cell lysate)

Western blot analysis of Lane 1: Human cell line RT-4 Lane 2: Human cell line U-251MG sp Lane 3: Human cell line A-431 Lane 4: Human liver tissue Lane 5: Human tonsil tissue with G6PD polyclonal antibody (Cat # PAB29349) at 1:100-1:250 dilution.



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

Immunohistochemical staining of human testis with G6PD polyclonal antibody (Cat # PAB29349) shows strong cytoplasmic and nuclear positivity in cells of seminiferous duct at 1:2500-1:5000 dilution.



Immunofluorescence

Immunofluorescent staining of human cell line U-2 OS with G6PD polyclonal antibody (Cat # PAB29349) at 1-4 ug/mL concentration shows positivity in cytoplasm.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant human G6PD.
Immunogen	Recombinant protein corresponding to human G6PD.
Sequence	FQGDAFHQSDTHFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGYARSRLTVADIRKQSEPFF KATPEEKLKLEDDFARN SYVAGQYDDAASYQRLNSHMNALH
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:2500-1:5000) Immunofluorescence (1-4 ug/mL) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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

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Gene Info — G6PD

Entrez GeneID [2539](#)

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

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](#)