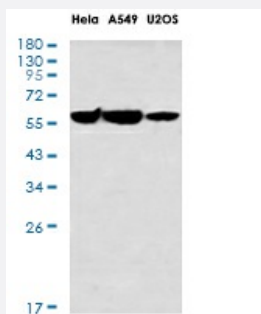


RecomAb™

G6PD recombinant monoclonal antibody, clone R03-1F3

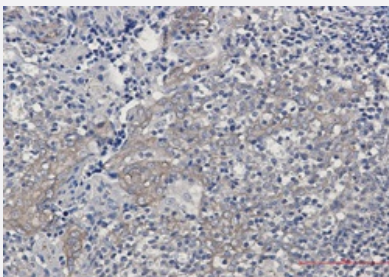
Catalog # RAB01443 Size 100 uL

Applications



Western Blot

Western blot analysis of Glucose 6 Phosphate Dehydrogenase in HeLa, A549, U2OS lysates using Glucose 6 Phosphate Dehydrogenase antibody.



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

Immunohistochemistry analysis of paraffin-embedded Human tonsil using Glucose 6 Phosphate Dehydrogenase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human G6PD.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human G6PD.
Theoretical MW (kDa)	Calculated MW: 59 kD
Reactivity	Human
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence Immunohistochemistry (Frozen sections) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4, (0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C. For longer storage, aliquot and 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

Western blot analysis of Glucose 6 Phosphate Dehydrogenase in Hela, A549, U2OS lysates using Glucose 6 Phosphate Dehydrogenase antibody.

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

Immunohistochemistry analysis of paraffin-embedded Human tonsil using Glucose 6 Phosphate Dehydrogenase antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

- Immunohistochemistry (Frozen sections)

- Immunocytochemistry

- Immunofluorescence

Gene Info — G6PD

Entrez GeneID	2539
Protein Accession#	P11413
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](#)