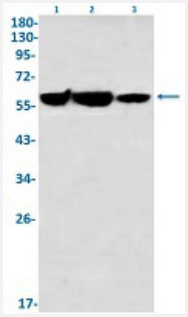
RecomAb™

G6PD recombinant monoclonal antibody, clone R02-6B6

Catalog # RAB02253 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: Hela, Lane 2: A549 and Lane 3: U2OS lysates with G6PD recombinant monoclonal antibody, clone R02-6B6 (Cat # RAB02253).

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, Rat
Form	Liquid
Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.

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Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
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 shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunoprecipitation
- Western Blot

  Western Blot analysis of Lane 1: Hela, Lane 2: A549 and Lane 3: U2OS lysates with G6PD recombinant monoclonal antibody, clone R02-6B6 (Cat # RAB02253).

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 enc oded by a housekeeping X-linked gene whose main function is to produce NADPH, a key electro n donor in the defense against oxidizing agents and in reductive biosynthetic reactions. G6PD is r emarkable for its genetic diversity. Many variants of G6PD, mostly produced from missense mutat ions, have been described with wide ranging levels of enzyme activity and associated clinical sym ptoms. G6PD deficiency may cause neonatal jaundice, acute hemolysis, or severe chronic non-sp herocytic hemolytic anemia. Two transcript variants encoding different isoforms have been found f or this gene. [provided by RefSeq
Other Designations	OTTHUMP00000026034|glucose-6-phosphate 1-dehydrogenase|glucose-6-phosphate dehydrog enase, G6PD

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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

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- Hemoglobinuria
- Hemolysis
- Hyperbilirubinemia
- Jaundice
- Lymphoma
- Malaria
- Metabolism
- Parasitemia
- Sickle Cell Trait
- Stroke
- Syndrome
- Thalassemia
- Wounds and Injuries

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