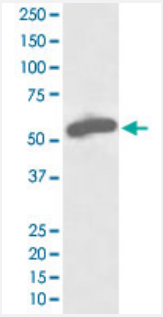
G6PD monoclonal antibody, clone ABBI-7

Catalog # MAB20066 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of MCF7 cell lysate with G6PD monoclonal antibody, clone ABBI-7 (Cat # MAB20066).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human G6PD.
Immunogen	A synthetic peptide corresponding to human G6PD.
Host	Rabbit
Theoretical MW (kDa)	59.257
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Flow Cytometry (1:100) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. 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

- Western Blot (Cell lysate)

  Western Blot analysis of MCF7 cell lysate with G6PD monoclonal antibody, clone ABBI-7 (Cat # MAB20066).

- Immunohistochemistry
- Immunocytochemistry
- Immunofluorescence
- Flow Cytometry

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