

G6PD Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1634a**Specification****G6PD Antibody - Product Information**

Application	E, WB, IHC, FC
Primary Accession	P11413
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	59kDa KDa

Description

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.

Immunogen

Purified recombinant fragment of human G6PD expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

G6PD Antibody - Additional Information

Gene ID 2539

Other Names

Glucose-6-phosphate 1-dehydrogenase, G6PD, 1.1.1.49, G6PD

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

G6PD Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

G6PD Antibody - Protein Information**Name** G6PD**Function**

Catalyzes the rate-limiting step of the oxidative pentose- phosphate pathway, which represents a route for the dissimilation of carbohydrates besides glycolysis. The main function of this enzyme is to provide reducing power (NADPH) and pentose phosphates for fatty acid and nucleic acid synthesis.

Cellular Location

Cytoplasm, cytosol. Membrane; Peripheral membrane protein

Tissue Location

Isoform Long is found in lymphoblasts, granulocytes and sperm

G6PD Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)