

G6PD Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP5094c

Specification

G6PD Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P11413](#)

G6PD Antibody (Center) Blocking Peptide - Additional Information

Gene ID 2539

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

G6PD Antibody (Center) Blocking Peptide - 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

G6PD Antibody (Center) Blocking Peptide - Images**G6PD Antibody (Center) Blocking Peptide - Background**

G6PD 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.

G6PD Antibody (Center) Blocking Peptide - References

Louicharoen, C., et al. Science 326(5959):1546-1549(2009)Zhong, D.N., et al. Zhongguo Dang Dai Er Ke Za Zhi 11(12):970-972(2009)Tiono, A.B., et al. Am. J. Trop. Med. Hyg. 81(6):969-978(2009)