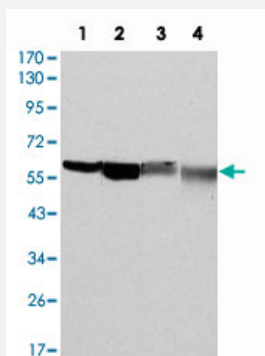


G6PD monoclonal antibody, clone 5E12

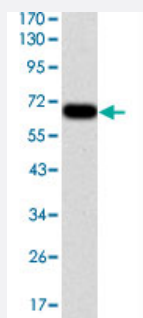
Catalog # MAB10660 Size 100 uL

Applications



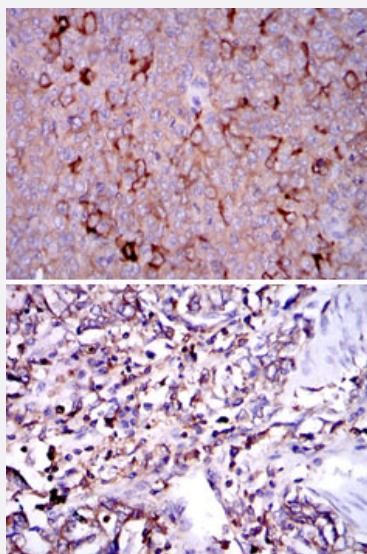
Western Blot (Cell lysate)

Western blot analysis using G6PD monoclonal antibody, clone 5E12 (Cat # MAB10660) against HeLa (1) , MCF-7 (2) , Jurkat (3) and K-562 (4) cell lysate.



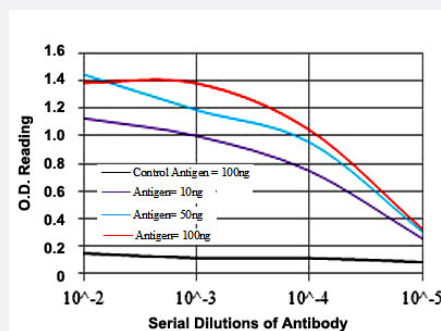
Western Blot (Recombinant protein)

Western blot analysis using G6PD monoclonal antibody, clone 5E12 (Cat # MAB10660) against human G6PD (aa 275-515) recombinant protein. (Expected MW is 53.1 kDa)



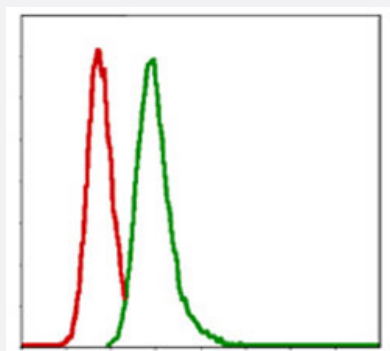
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human ovarian cancer (upper) and human stomach cancer (bottom) tissues using G6PD monoclonal antibody, clone 5E12 (Cat # MAB10660) with DAB staining.



Enzyme-linked Immunoabsorbent Assay

ELISA measurement of G6PD monoclonal antibody, clone 5E12 (Cat # MAB10660) .



Flow Cytometry

Flow cytometric analysis of MCF-7 cells using G6PD monoclonal antibody, clone 5E12 (Cat # MAB10660) (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant G6PD.
Immunogen	Recombinant protein corresponding to human G6PD.
Host	Mouse
Theoretical MW (kDa)	59
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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.

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Gene Info — G6PD

Entrez GeneID	2539
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](#)