

KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1968**Specification**

KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P11413
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 59 kDa , observed, 58 kDa KDa
Gene Name	G6PD
Aliases	G6PD; Glucose-6-Phosphate Dehydrogenase; G6PD1; Glucose-6-Phosphate 1-Dehydrogenase; EC 1.1.1.49; Epididymis Secretory Sperm Binding Protein
Immunogen	A synthesized peptide derived from human G6PD

KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal Antibody - Additional Information

Gene ID	2539
Other Names	
Glucose-6-phosphate 1-dehydrogenase, G6PD, 1.1.1.49, G6PD	

KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal 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

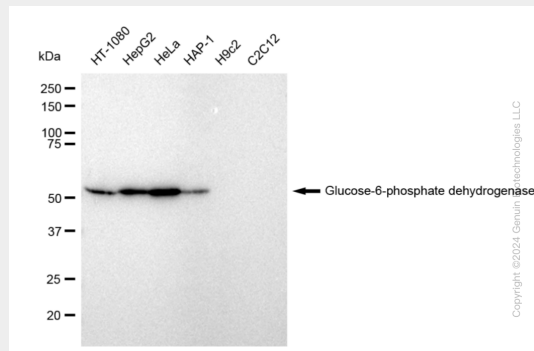
Isoform Long is found in lymphoblasts, granulocytes and sperm

KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal Antibody - Protocols

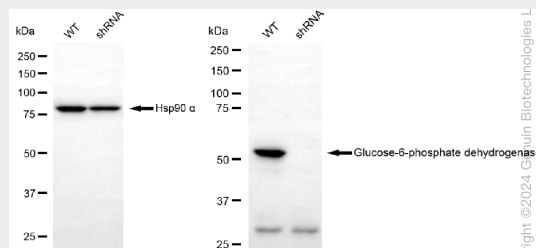
Provided below are standard protocols that you may find useful for product applications.

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

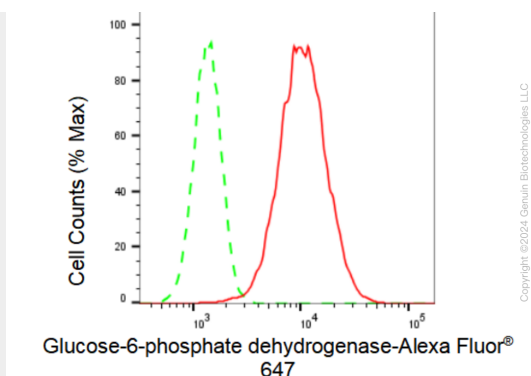
KD-Validated Anti-Glucose-6-phosphate dehydrogenase Rabbit Monoclonal Antibody - Images



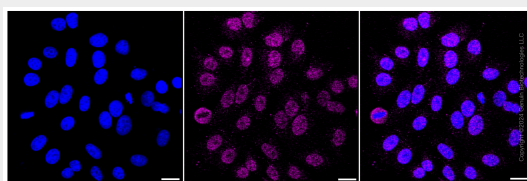
Western blotting analysis using anti-Glucose-6-phosphate dehydrogenase antibody (Cat#AGI1968). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Glucose-6-phosphate dehydrogenase antibody (Cat#AGI1968, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Glucose-6-phosphate dehydrogenase antibody (Cat#AGI1968). Glucose-6-phosphate dehydrogenase expression in wild type (WT) and glucose-6-phosphate dehydrogenase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Glucose-6-phosphate dehydrogenase antibody (Cat#AGI1968, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Glucose-6-phosphate dehydrogenase expression in HepG2 cells using Glucose-6-phosphate dehydrogenase antibody (Cat#AGI1968, 1:2,000). Green, isotype control; red, Glucose-6-phosphate dehydrogenase.



Immunocytochemical staining of HepG2 cells with Glucose-6-phosphate dehydrogenase antibody (Cat#AGI1968, 1:1,000). Nuclei were stained blue with DAPI; Glucose-6-phosphate dehydrogenase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Very low. Scale bar: 20 µm.