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

Catalog #: 63652

Aliases

G6PD; Glucose-6-Phosphate Dehydrogenase; G6PD1; Glucose-6-Phosphate 1-Dehydrogenase; EC 1.1.1.49; Epididymis Secretory Sperm Binding Protein

Background

Gene Name: G6PD
NCBI Gene Entry: 2539
UniProt Entry: P11413

Application Information

Molecular Weight: Predicted, 59 kDa, observed, 58 kDa
Clonality: Rabbit monoclonal antibody
Clone ID: 23GB1795
Species Reactivity: Human
Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human G6PD

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

Storage

Store at -20 °C for one year.

Recommended Dilutions

Western Blotting (WB): 1:1,000-1:5,000
Flow Cytometry (FCM): 1:2,000
Immunocytochemistry (IC): 1:100-1:1,000

Note: This product is for research use only.

Validation Data

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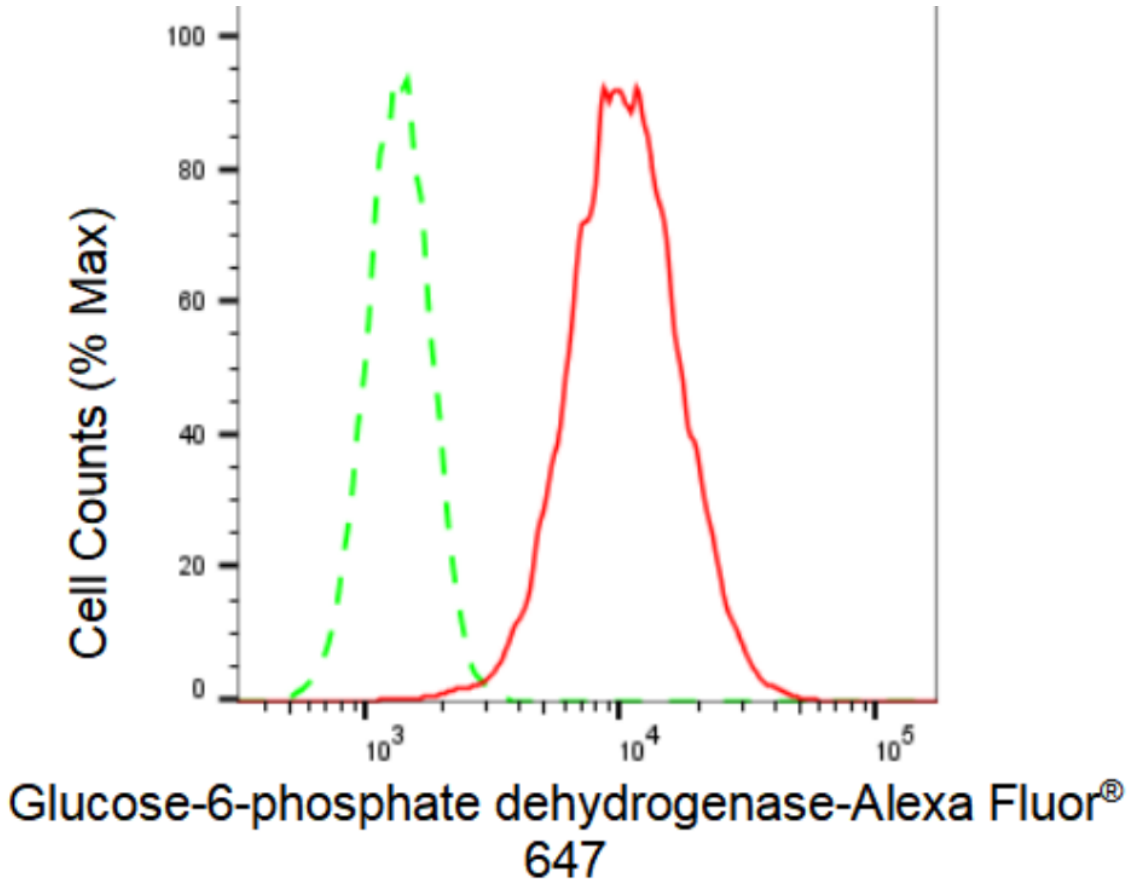
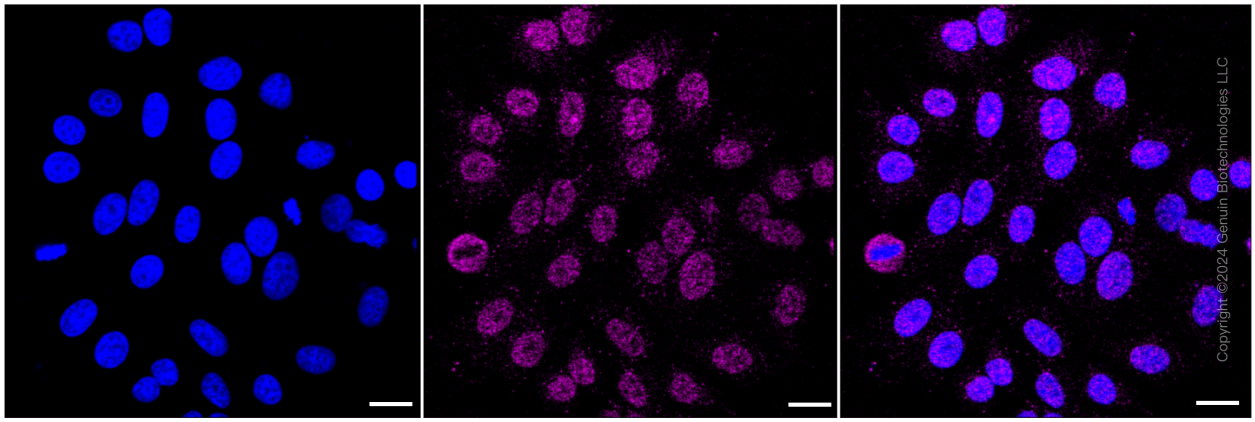


Flow cytometric analysis of Glucose-6-phosphate dehydrogenase expression in HepG2 cells using Glucose-6-phosphate dehydrogenase antibody (Cat#63652, 1:2,000). Green, isotype control; red, Glucose-6-phosphate dehydrogenase.



Immunocytochemical staining of HepG2 cells with Glucose-6-phosphate dehydrogenase antibody (Cat#63652, 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.

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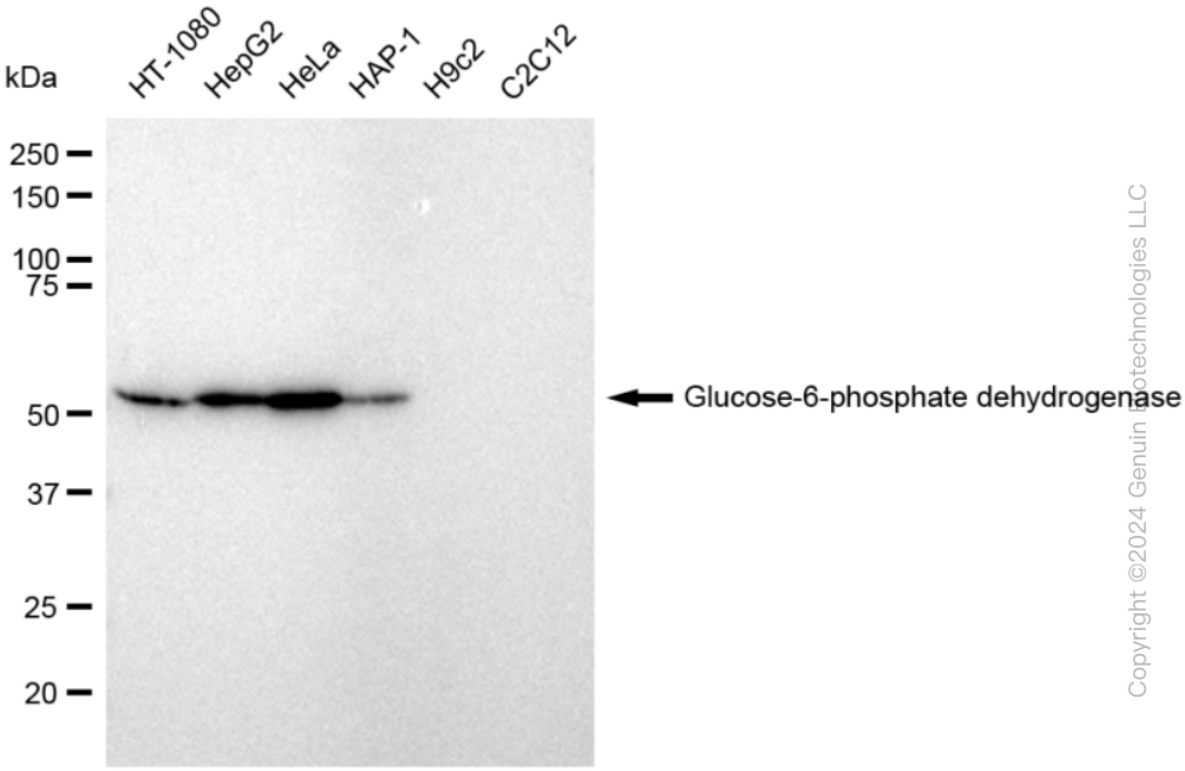

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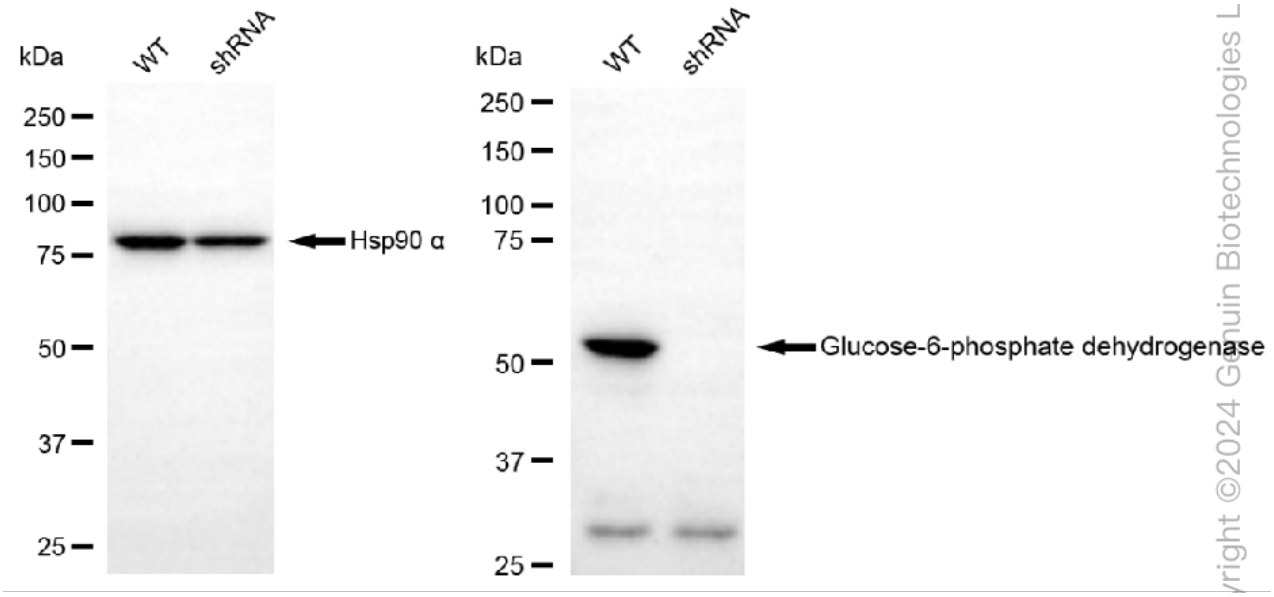
Western blotting analysis using anti-Glucose-6-phosphate dehydrogenase antibody (Cat#63652). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Glucose-6-phosphate dehydrogenase antibody (Cat#63652, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



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Western blotting analysis using anti-Glucose-6-phosphate dehydrogenase antibody (Cat#63652).

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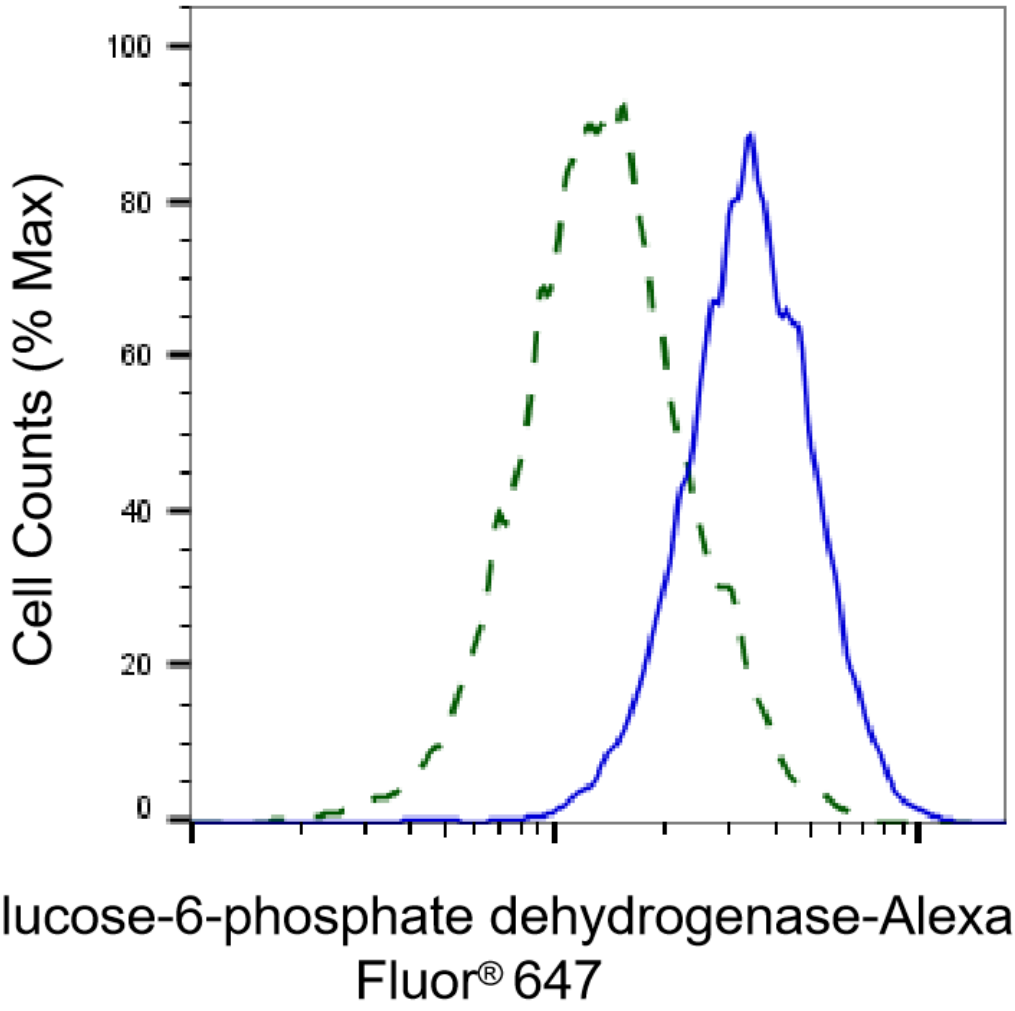
Glucose-6-phosphate dehydrogenase expression in wild type (WT) and glucose-6-phosphate dehydrogenase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Glucose-6-phosphate dehydrogenase antibody (Cat#63652, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).



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Validation of Glucose-6-phosphate dehydrogenase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with anti-Glucose-6-phosphate dehydrogenase antibody (Cat#63652, 1:2,000) and analyzed using BD flow cytometer.