

KD-Validated Anti-Phosphogluconate Dehydrogenase Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1371**Specification**

KD-Validated Anti-Phosphogluconate Dehydrogenase Rabbit Monoclonal Antibody - Product Information

Application	WB, FC, ICC
Primary Accession	P52209
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 53 kDa; observed, 45 kDa
Gene Name	PGD
Aliases	PGD; Phosphogluconate Dehydrogenase; 6-Phosphogluconate Dehydrogenase, Decarboxylating; EC 1.1.1.44; 6PGD; PGDH
Immunogen	A synthesized peptide derived from human PGD

KD-Validated Anti-Phosphogluconate Dehydrogenase Rabbit Monoclonal Antibody - Additional Information

Gene ID	5226
Other Names	6-phosphogluconate dehydrogenase, decarboxylating, 1.1.1.44, PGD, PGDH

KD-Validated Anti-Phosphogluconate Dehydrogenase Rabbit Monoclonal Antibody - Protein Information**Name** PGD**Synonyms** PGDH**Function**

Catalyzes the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate and CO₂, with concomitant reduction of NADP to NADPH.

Cellular Location

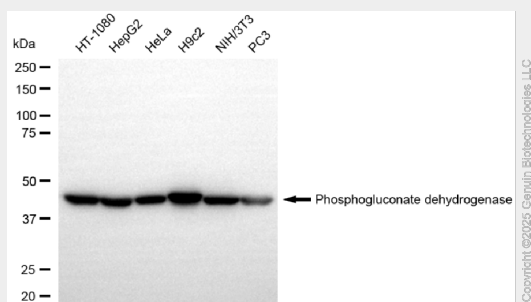
Cytoplasm.

KD-Validated Anti-Phosphogluconate Dehydrogenase Rabbit Monoclonal Antibody - Protocols

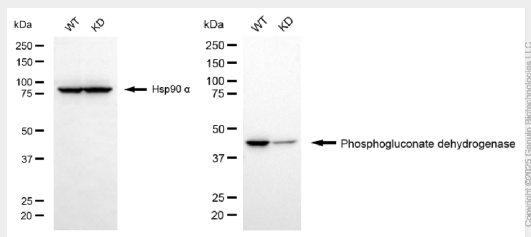
Provided below are standard protocols that you may find useful for product applications.

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

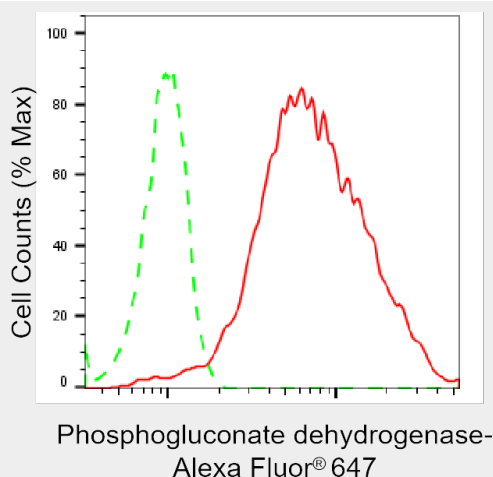
KD-Validated Anti-Phosphogluconate Dehydrogenase Rabbit Monoclonal Antibody - Images



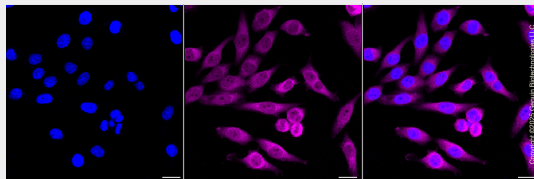
Western blotting analysis using anti-phosphogluconate dehydrogenase antibody (Cat#AGI1371). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-phosphogluconate dehydrogenase antibody (Cat#AGI1371, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



Western blotting analysis using anti-phosphogluconate dehydrogenase antibody (Cat#AGI1371). Phosphogluconate dehydrogenase expression in wild type (WT) and phosphogluconate dehydrogenase (PGD) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-phosphogluconate dehydrogenase antibody (Cat#AGI1371, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Phosphogluconate dehydrogenase expression in HepG2 cells using anti-Phosphogluconate dehydrogenase antibody (Cat#AGI1371, 1:2,000). Green, isotype control; red, Phosphogluconate dehydrogenase.



Immunocytochemical staining of HepG2 cells with Phosphogluconate dehydrogenase antibody (Cat#AGI1371, 1:1,000). Nuclei were stained blue with DAPI; Phosphogluconate dehydrogenase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.