10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Phospho-Glycogen synthase 1 (S641) Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1390

Specification

KD-Validated Anti-Phospho-Glycogen synthase 1 (S641) Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P13807
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 84 kDa , observed, 85 kDa KDa**
Gene Name	**GYS1**
Aliases	**GYS1; Glycogen Synthase 1; GSY; GYS; Glycogen [Starch] Synthase, Muscle; Glycogen Synthase 1 (Muscle); EC 2.4.1.11**
Immunogen	**A synthesized peptide derived from human Phospho-Glycogen synthase 1 (S641)**

KD-Validated Anti-Phospho-Glycogen synthase 1 (S641) Rabbit Monoclonal Antibody - Additional Information

Gene ID	**2997**

Other Names
Glycogen [starch] synthase, muscle, 2.4.1.11, GYS1 (HGNC:4706), GYS

KD-Validated Anti-Phospho-Glycogen synthase 1 (S641) Rabbit Monoclonal Antibody - Protein Information

Name GYS1 (HGNC:4706)

Synonyms GYS

Function
Glycogen synthase participates in the glycogen biosynthetic process along with glycogenin and glycogen branching enzyme. Extends the primer composed of a few glucose units formed by glycogenin by adding new glucose units to it. In this context, glycogen synthase transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan.

Tissue Location
Expressed in skeletal muscle and most other cell types where glycogen is present.

KD-Validated Anti-Phospho-Glycogen synthase 1 (S641) Rabbit Monoclonal Antibody -

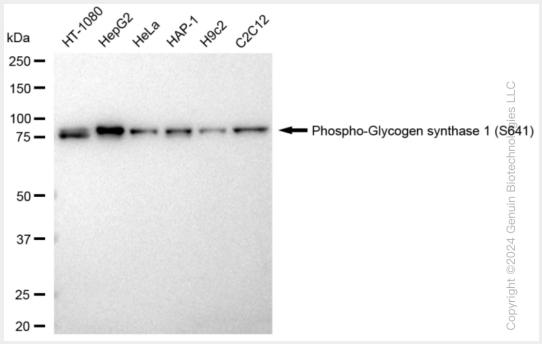
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Protocols

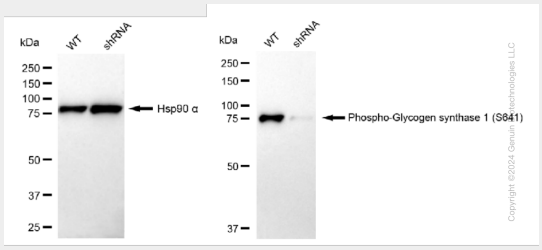
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Phospho-Glycogen synthase 1 (S641) Rabbit Monoclonal Antibody - Images

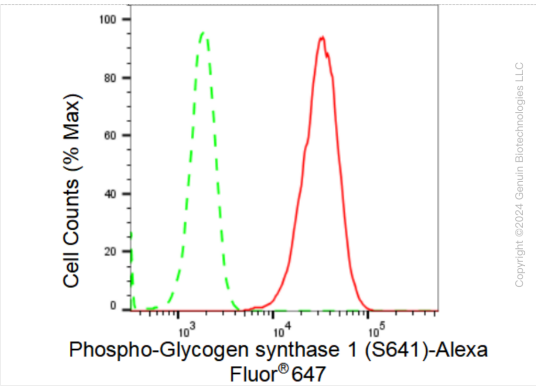


Western blotting analysis using anti-Phospho-Glycogen synthase 1 (S641) antibody (Cat#AGI1390). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Phospho-Glycogen synthase 1 (S641) antibody (Cat#AGI1390, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

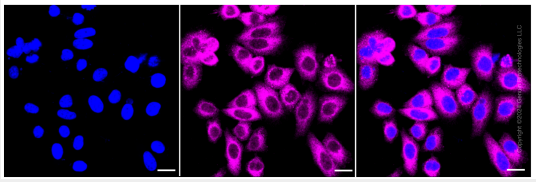


Western blotting analysis using anti-Phospho-Glycogen synthase 1 (S641) antibody (Cat#AGI1390). Phospho-Glycogen synthase 1 (S641) expression in wild type (WT) and Phospho-Glycogen synthase 1 (S641) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Phospho-Glycogen synthase 1 (S641) antibody (Cat#AGI1390, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Flow cytometric analysis of Phospho-Glycogen synthase 1 (S641) expression in HepG2 cells using Phospho-Glycogen synthase 1 (S641) antibody (Cat#AGI1390, 1:2,000). Green, isotype control; red, Phospho-Glycogen synthase 1 (S641).



Immunocytochemical staining of HepG2 cells with Phospho-Glycogen synthase 1 (S641) antibody (Cat#AGI1390, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Glycogen synthase 1 (S641) 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.