
Product Name: KD-Validated Glycogen Synthase 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01688**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:4,000-1:20,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 83.8kDa

Antigen Information

Gene Name	GYS1
Alternative Names	GYS1; Glycogen Synthase 1; GSY; GYS; Glycogen [Starch] Synthase, Muscle; Glycogen Synthase 1 (Muscle); EC 2.4.1.11
Gene ID	2997.0
SwissProt ID	P13807
Immunogen	A synthesized peptide derived from human Glycogen synthase

Background

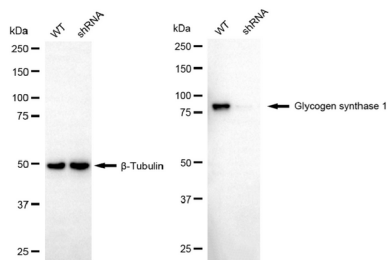
The protein encoded by this gene catalyzes the addition of glucose monomers to the growing glycogen molecule through the formation of alpha-1,4-glycoside linkages. Mutations in this gene are associated with muscle glycogen storage disease.

Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

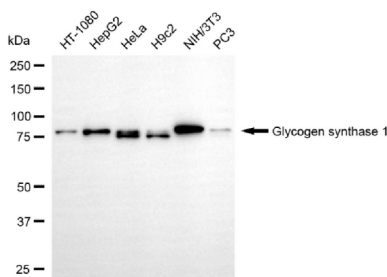
Research Area

Signal Transduction, Cardiovascular, Metabolism

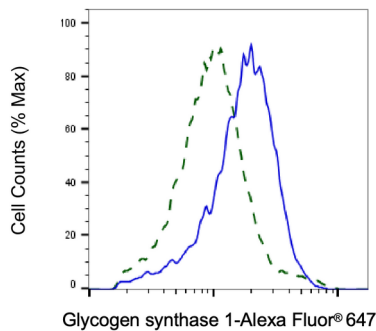
Image Data



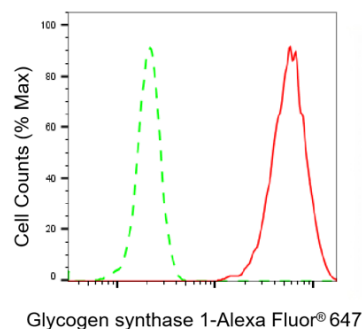
Western blotting analysis using glycogen synthase 1 antibody (KVA01688). Glycogen synthase 1 expression in wild-type (WT) and glycogen synthase 1 (GYS1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with glycogen synthase 1 antibody (KVA01688, 1:2,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using glycogen synthase 1 antibody (KVA01688). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with glycogen synthase 1 antibody (KVA01688, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of Glycogen synthase 1 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Glycogen synthase 1 antibody (KVA01688, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Glycogen synthase 1 expression in HepG2 cells using Glycogen synthase 1 antibody (KVA01688, 1:2,000). Green, isotype control; red, Glycogen synthase 1.