



# Glycogen Synthase 1 Monoclonal Antibody

<b>Catalog No</b>	BYab-02327
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB;FCM;ELISA
<b>Gene Name</b>	GYS1
<b>Protein Name</b>	Glycogen [starch] synthase muscle
<b>Immunogen</b>	Purified recombinant fragment of human Glycogen Synthase 1 expressed in E. Coli.
<b>Specificity</b>	Glycogen Synthase 1 Monoclonal Antibody detects endogenous levels of Glycogen Synthase 1 protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	GYS1; GYS; Glycogen [starch] synthase; muscle
<b>Observed Band</b>	
<b>Cell Pathway</b>	cytosol,membrane,inclusion body,
<b>Tissue Specificity</b>	Endometrium,Heart,Kidney,Lymph,Muscle,Skin,
<b>Function</b>	catalytic activity:UDP-glucose ((1->4)-alpha-D-glucosyl)(n) = UDP + ((1->4)-alpha-D-glucosyl)(n+1).,disease:Defects in GYS1 are the cause of muscle glycogen storage disease type 0 (GSD0b) [MIM:611556]; also called muscle glycogen synthase deficiency. GSD0 is a metabolic disorder characterized by fasting hypoglycemia presenting in infancy or early childhood. The role of muscle glycogen is to provide critical energy during bursts of activity and sustained muscle work.,enzyme regulation:Allosteric activation by glucose-6-phosphate. Phosphorylation reduces the activity towards UDP-glucose. When in the non-phosphorylated state, glycogen synthase does not require glucose-6-phosphate as an allosteric activator; when phosphorylated it does.,function:Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan.,pathway:Glycan biosynthesis; glycogen

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biosynthesis.,similar

### 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],

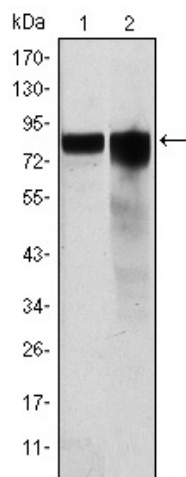
### matters needing attention

Avoid repeated freezing and thawing!

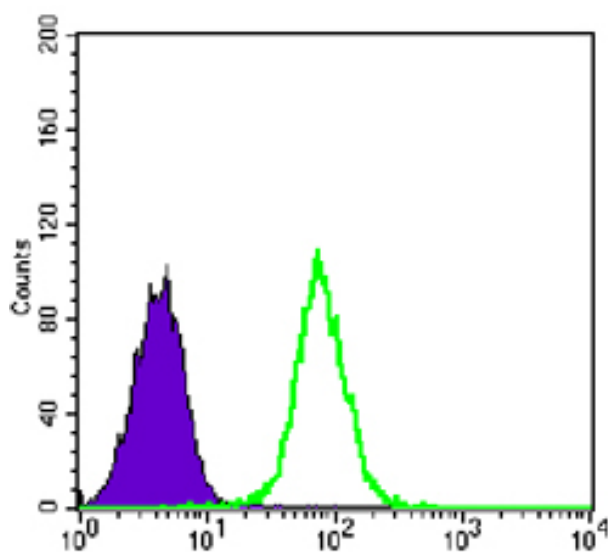
### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis using Glycogen Synthase 1 Monoclonal Antibody against HeLa (1) and HEK293 (2) cell lysate.



Flow cytometric analysis of K562 cells using Glycogen Synthase 1 Monoclonal Antibody (green) and negative control (purple).

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