

Glycogen synthase 1/GYS1 Rabbit mAb

Catalog # AP75503

Product Information

Application	WB, IHC-P, IP
Primary Accession	P13807
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	83786

Additional Information

Gene ID	2997
Other Names	GYS1
Dilution	WB~~1:500-1:1000 IHC-P~~N/A IP~~1:20
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

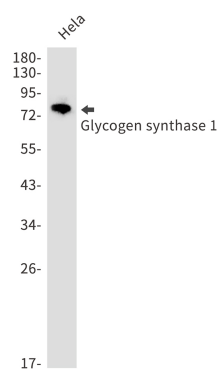
Name	GYS1 (HGNC:4706)
Synonyms	GYS
Function	Glycogen synthase participates in the glycogen biosynthetic process along with glycogenin and glycogen branching enzyme. Extends the primer composed of a few glucose units formed by glycogenin by adding new glucose units to it. In this context, glycogen synthase 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.

Background

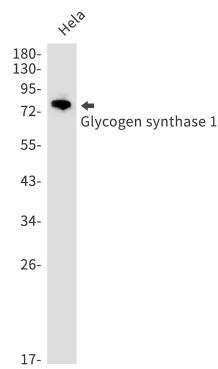
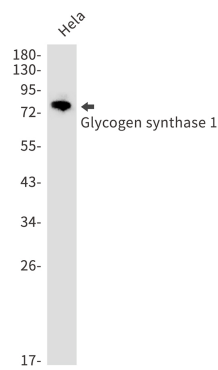
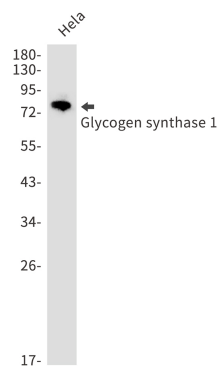
Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1, 4-glucan. Allosteric

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.

Images



Western blot analysis of Glycogen synthase 1 in HeLa lysates using Glycogen Synthase 1 antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.