

GYS1 Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1511a

Product Information

Application	WB, FC, E
Primary Accession	P13807
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3A7
Isotype	IgG1
Calculated MW	83786
Description	Glycogen synthase, skeletal muscle, the rate limiting enzyme of the insulin-induced glycogenesis. 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. Muscle GS is expressed in several tissues.
Immunogen	Purified recombinant fragment of human GYS1 expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2997
Other Names	Glycogen [starch] synthase, muscle, 2.4.1.11, GYS1, GYS
Dilution	WB~~1/500 - 1/2000 FC~~1/200 - 1/400 E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GYS1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.

References

1. PLoS One. 2007 Mar 14;2(3):e285. 2. Mol Syst Biol. 2007;3:89. Epub 2007 Mar 13.

Images

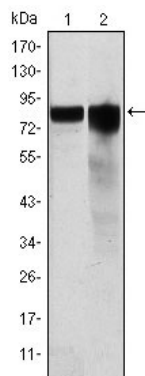


Figure 1: Western blot analysis using GYS1 mouse mAb against HeLa (1) and HEK293 (2) cell lysate.

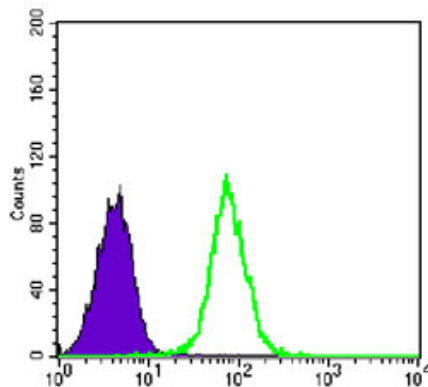


Figure 2: Flow cytometric analysis of K562 cells using GYS1 mouse mAb (green) and negative control (purple).

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