

GYS1 Antibody

Purified Mouse Monoclonal Antibody Catalog # A01511a

Specification

GYS1 Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Calculated MW Description WB, FC, E <u>P13807</u> Human Mouse Monoclonal IgG1 85kDa KDa

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.

GYS1 Antibody - 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.

GYS1 Antibody - Protein Information

Name GYS1 (<u>HGNC:4706</u>)



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.

GYS1 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>



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).

GYS1 Antibody - References

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