Product Name: Glycogen Synthase 1 Rabbit Polyclonal



Catalog #: APRab11513



Summary

Production Name Glycogen Synthase 1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application WB,IHC,ELISA **Reactivity** Human,Mouse,Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw $\bf Storage$

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Gene Name GYS1

Alternative Names GYS1; GYS; Glycogen [starch] synthase; muscle

Gene ID 2997.0

P13807.The antiserum was produced against synthesized peptide derived from human SwissProt ID

Glycogen Synthase. AA range:621-670

Application

Dilution Ratio WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000..

Molecular Weight 85kD

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Product Name: Glycogen Synthase 1 Rabbit Polyclonal

Antibody

Catalog #: APRab11513



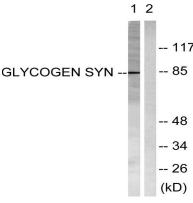
Background

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],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 biosynthesis.,similarity:Belongs to the glycosyltransferase 3 family.,

Research Area

Starch and sucrose metabolism;Insulin_Receptor;

Image Data



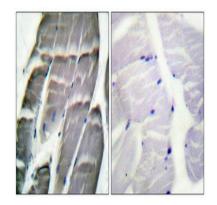
Western blot analysis of lysates from HeLa cells, treated with Serum 20% 30 ', using Glycogen Synthase Antibody. The lane on the right is blocked with the synthesized peptide.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

Antibody

Catalog #: APRab11513





Immunohistochemical analysis of paraffin-embedded Human skeletal muscle. Antibody was diluted at 1:100 (4°, overnight) . High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

Note

For research use only.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838