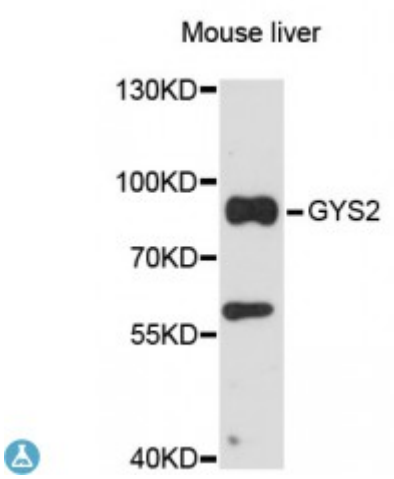
Anti-GYS2 Antibody



Description	The protein encoded by this gene, liver glycogen synthase, catalyzes the rate-limiting step in the synthesis of glycogen - the transfer of a glucose molecule from UDP-glucose to a terminal branch of the glycogen molecule. Mutations in this gene cause glycogen storage disease type 0 (GSD-0) - a rare type of early childhood fasting hypoglycemia with decreased liver glycogen content.

Model	STJ114987
Host	Rabbit
Reactivity	Mouse
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 594-703 of human GYS2 (NP_068776.2).
Gene ID	2998
Gene Symbol	GYS2
Dilution range	WB 1:500 - 1:2000
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Glycogen synthase liver
Molecular Weight	80.989 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:4707OMIM:138571Reactome:R-HSA-3322077
Alternative Names	Glycogen synthase liver
Function	Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan
Post-translational Modifications	Primed phosphorylation at Ser-657 (site 5) by CSNK2A1 and CSNK2A2 is required for inhibitory phosphorylation at Ser-641 (site 3a), Ser-645 (site 3b), Ser-649 (site 3c) and Ser-653 (site 4) by GSK3A an GSK3B, Dephosphorylation at Ser-641 and Ser-645 by PP1 activates the enzyme , Phosphorylation at Ser-8 is not required for interaction with GYG1 , Interaction with GYG1 does not regulate the phosphorylation at Ser-8 and Ser-641 ,