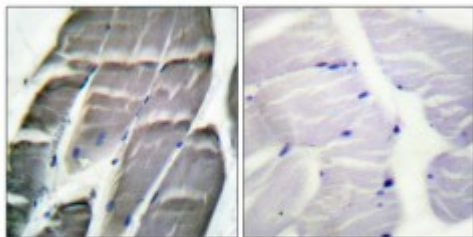


Anti-Glycogen Synthase 1 antibody



Description	Rabbit polyclonal to Glycogen Synthase 1.
Model	STJ93297
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human Glycogen Synthase 1 around the non-phosphorylation site of S645.
Immunogen Region	580-660 aa
Gene ID	2997
Gene Symbol	GYS1
Dilution range	WB 1:500-1:2000ELISA 1:10000
Specificity	Glycogen Synthase 1 Polyclonal Antibody detects endogenous levels of Glycogen Synthase 1 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Glycogen starch synthase, muscle
Molecular Weight	85/89 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4706OMIM:138570
Alternative Names	Glycogen starch synthase, muscle
Function	Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan.
Post-translational Modifications	Phosphorylation at Ser-8 by AMPK inactivates the enzyme activity. 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 and GSK3B. Phosphorylated at Ser-641 by DYRK2, leading to inactivation. Phosphorylated at Ser-641 by PASK, leading to inactivation; phosphorylation by PASK is inhibited by glycogen. Dephosphorylation at Ser-641 and Ser-645 by PP1 activates the enzyme.