

Rabbit Glycogen Synthase Polyclonal Antibody | anti-GYS antibody

Phospho-Glycogen Synthase (Tyr44) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328383	Rabbit	Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog	ELISA, Immunohistochemistry, Western Blot

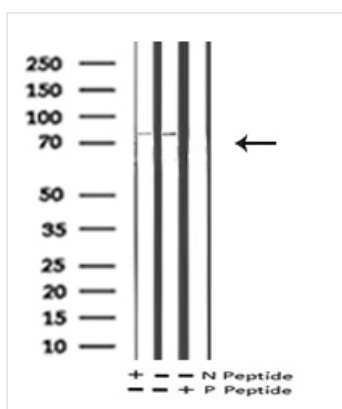
PRODUCT SYNONYMS

Glycogen Synthase; Polyclonal Antibody; Phospho-Glycogen Synthase (Tyr44) Antibody; Glycogen [starch] synthase; Glycogen synthase 1 (muscle); Glycogen synthase 1; GSY; Gys1; GYS1_HUMAN; muscle; anti-GYS antibody

PRODUCT SPECIFICATIONS

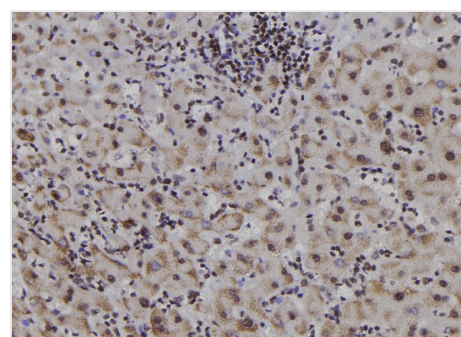
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Glycogen Synthase (Tyr44) Antibody detects endogenous levels of Glycogen Synthase only when phosphorylated at Tyr44.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	673
Applicable Applications for anti-GYS antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Glycogen Synthase around the phosphorylation site of Tyr44.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-Glycogen Synthase (Tyr44) in lysates of NIH-3T3, using Phospho-Glycogen Synthase (Tyr44) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

Related Product Information for anti-GYS antibody	Description: 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 (By similarity). Phosphorylated at Ser-641 by DYRK2, leading to inactivation (By similarity). 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. Subunit Structure: Interacts with GYG1. Similarity: Belongs to the glycosyltransferase 3 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	239049591
NCBI GeneID	2997
NCBI Accession #	NP_001155059.1
NCBI GenBank Nucleotide #	NP_001155059.1
UniProt Accession #	P13807
Molecular Weight	Observed: 85 kDa Predicted: 84 kDa
NCBI Official Full Name	glycogen
NCBI Official Synonym Full Names	glycogen synthase 1
NCBI Official Symbol	GYS1
NCBI Official Synonym Symbols	GSY; GYS
NCBI Protein Information	glycogen [starch] synthase, muscle
UniProt Protein Name	Glycogen [starch] synthase, muscle
UniProt Gene Name	GYS1
UniProt Synonym Gene Names	GYS
UniProt Entry Name	GYS1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/glycogen-synthase-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328383>