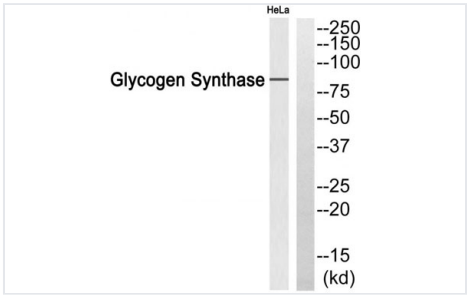
Glycogen Synthase (GYS2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Glycogen Synthase (GYS2), Polyclonal Antibody
Full Product Name	Glycogen Synthase antibody
Product Gene Name	anti-GYS2 antibody
Product Synonym Names	Polyclonal Glycogen Synthase; Anti-Glycogen Synthase; UDP-glucose-glycogen glucosyltransferase;
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Form/Format	Supplied in PBS buffer (without Mg2+and Ca2+), pH 7.4, 150mM NaCl with 0.02% sodium azide and 50% glycerol
Concentration	1 mg/ml (lot specific)
Specificity	Glycogen Synthase antibody detects endogenous levels of total Glycogen Synthase protein
Preparation and Storage	Aliquot and store at -20 degree C. Avoid repeated freeze thaw cycles
Molecular Weight	80,989 Da
OMIM	138571
Cross-Reactivity	Mouse
Immunogen	Glycogen Synthase antibody was raised in Rabbit using synthesized non-phosphopeptide derived from human Glycogen Synthase around the phosphorylation site of serine 641 (P-A-SP-V-P) as the immunogen
Product Categories/Family for anti-GYS2 antibody	Proteases; Inhibitors; & Enzymes; Purified Polyclonal Antibodies
Applications Tested/Suitable for anti-GYS2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-GYS2 antibody	WB: 1:500-1:1000 ELISA: 1:1000
Related Product Information for anti-GYS2 antibody	MBS5300915 is an antibody targeting GYS2. Also known as Glycogen Synthase antibody. Host: Rabbit. Rabbit polyclonal Glycogen Synthase antibody
Other Notes	Small volumes of anti-GYS2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-GYS2 antibody
Western blot analysis of extracts from HeLa cells, using Glycogen Synthase antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GYS2. It may not necessarily be applicable to this product.

NCBI GI #	546961
NCBI GeneID	2998
NCBI Accession #	AAB30886.1
UniProt Secondary Accession #	A0AVD8
UniProt Related Accession #	P54840
NCBI Official Full Name	glycogen synthase
NCBI Official Synonym Full Names	glycogen synthase 2 (liver)
NCBI Official Symbol	GYS2
UniProt Protein Name	Glycogen [starch] synthase, liver
Protein Family	Glycogen [starch] synthase
UniProt Gene Name	GYS2
UniProt Entry Name	GYS2_HUMAN
NCBI Protein Information	glycogen [starch] synthase, liver
NCBI Summary for GYS2	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. [provided by RefSeq, Dec 2009]
UniProt Comments for GYS2	GYS2: Transfers the glycosyl residue from UDP-Glc to the non- reducing end of alpha-1,4-glucan. Defects in GYS2 are the cause of glycogen storage disease type 0 (GSD0); A metabolic disorder characterized by fasting hypoglycemia presenting in infancy or early childhood, high blood ketones and low alanine and lactate concentrations. Although feeding relieves symptoms, it often results in postprandial hyperglycemia and hyperlactatemia. Belongs to the glycosyltransferase 3 family. Protein type: EC 2.4.1.11; Transferase; Cytoskeletal; Carbohydrate Metabolism - starch and sucrose Chromosomal Location of Human Ortholog: 12p12.2 Cellular Component: cortical actin cytoskeleton; cytoskeleton; ectoplasm; cytoplasm; cell cortex; cytosol Molecular Function: protein homodimerization activity; glycogen (starch) synthase activity Biological Process: generation of precursor metabolites and energy; glycogen biosynthetic process; carbohydrate metabolic process; response to glucose stimulus; glucose metabolic process; pathogenesis Disease: Glycogen Storage Disease 0, Liver
Research Articles on GYS2	**1.** Sequencing of the GYS2 gene is more likely to be positive in patients with fasting ketotic hypoglycaemia and concomitant postprandial hyperglycaemia with hyperlactataemia.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-antibody/glycogen-synthase/5300915