Glycogen synthase 1(Phospho Ser641) (PT1289R) PT™ Rabbit mAb

CatalogNo: YM9131 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,IP,ELISA

MW
- 84kD (Calculated)

84kD (Observed)

Isotype
- IgG,Kappa

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Basic Information

Clonality	Monoclonal
Clone Number	PT1289R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.

Specificity	Glycogen synthase 1(Phospho Ser641) Antibody detects endogenous levels of Glycogen Synthase 1 protein only when phosphorylated at S641.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PAsVP

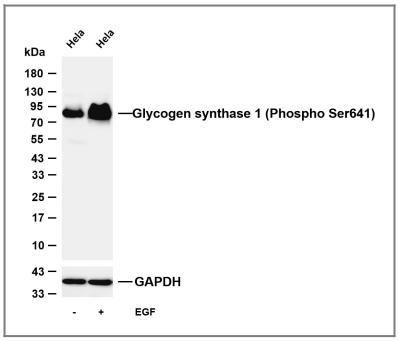
Target Information

Gene name	GYS1
Protein Name	Glycogen [starch] synthase muscle

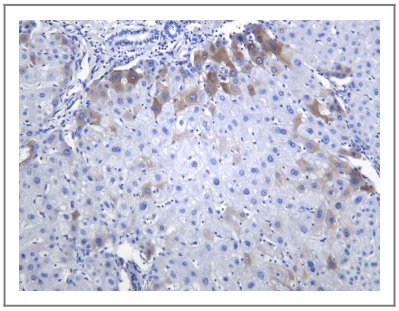
Organism	Gene ID	UniProt ID
Human	2997;	P13807;
Mouse	14936;	Q9Z1E4;
Rat	690987;	A2RRU1;

Cellular Localization	cytosol,membrane,inclusion body,
Tissue specificity	Endometrium,Heart,Kidney,Lymph,Muscle,Skin,
Function	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.,

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Glycogen synthase 1 (Phospho Ser641) (PT1289R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: Hela was treated with EGF (100ng/ml) for 20 minutes Predicted band size: 84kDa Observed band size: 84kDa



Human liver was stained with anti-Glycogen synthase 1 (Phospho Ser641) (PT1289R) Rabbit antibody

Contact information

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Please scan the QR code to access additional product information: **Glycogen synthase 1(Phospho Ser641) (PT1289R) PT™ Rabbit mAb**