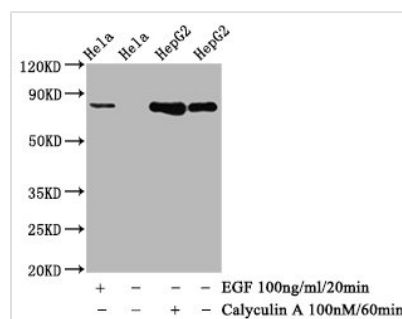




Phospho-GYS1 (S641) Antibody

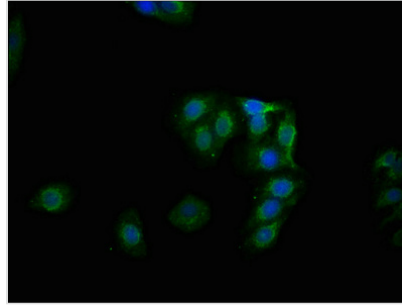
Product Code	CSB-RA010078A641phHU
Abbreviation	Glycogen [starch] synthase, muscle
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P13807
Immunogen	A synthesized peptide derived from Human Phospho-GYS1 (S641)
Species Reactivity	Human
Tested Applications	ELISA, WB, IF; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200
Relevance	Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Glycogen [starch] synthase, muscle, GYS1, GYS
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Gene Names	GYS1
Accession NO.	1D1

Image



Western Blot

Positive WB detected in HeLa whole cell lysate, HepG2 whole cell lysate (treated with Calyculin A or EGF)
 All lanes Phospho-GYS1 antibody at 1.12µg/ml
 Secondary
 Goat polyclonal to rabbit IgG at 1/50000 dilution
 Predicted band size: 85 KDa
 Observed band size: 85 KDa



Immunofluorescence staining of HepG2 cells with CSB-RA010078A641phHU at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

Anti-phospho-GYS1 (S641) antibody is a recombinant monoclonal antibody that recognizes the human GYS1 phosphorylated at Ser 641 residue. This phospho-GYS1 (S641) antibody was drawn and isolated from the tissue culture supernatant (TCS) that cultivates the cell lines containing vectors of the human phospho-GYS1 (S641) monoclonal antibody gene. It underwent affinity-chromatography purification. It is a rabbit IgG. This phospho-specific recombinant antibody can be used for ELISA, WB, and IF testing with human samples.

GYS1 catalyzes the conversion of glucose to glycogen and is activated by allostery and dephosphorylation, respectively. GYS1 activity is inhibited by phosphorylation via glycogen synthase kinase 3, AMPK, PKA, and casein kinase 2. The dephosphorylation of specific Ser/Thr residues enhances GYS1 activity.