

## GYS (P539) polyclonal antibody

Catalog: BS1151

Host: Rabbit

Reactivity: Human,Rat,Mouse

### BackGround:

Glycogen is a polysaccharide of glucose and serves as an energy storage in mammalian muscle and liver. Glycogen synthase catalyzes the rate-limiting step of glycogen biosynthesis and has two major isoforms in mammals -- muscle isoform (GYS1) and liver isoform (GYS2) respectively. Glycogen synthase kinase-3 $\alpha$  (GSK-3 $\alpha$ ) and glycogen synthase kinase-3 $\beta$  (GSK-3 $\beta$ ) phosphorylate glycogen synthase at multiple sites in its C-terminus (Ser641, Ser645, Ser649 and Ser653) inhibiting its activity. Hypoxia alters glycogen metabolism including temporal changes of GYS1 expression and phosphorylation in cancer cells, suggesting the role of metabolic reprogramming of glycogen metabolism in cancer growth.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

### Molecular Weight:

~ 84 kDa

### Swiss-Prot:

P13807

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

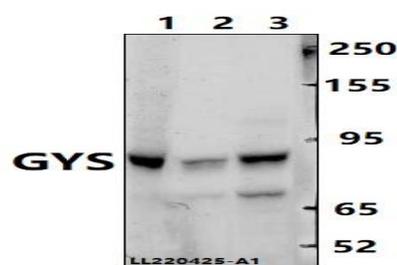
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

GYS (P539) polyclonal antibody detects endogenous levels of GYS protein.

### DATA:



Western blot (WB) analysis of GYS (P539) polyclonal antibody at 1:500 dilution

Lane1:H1792 whole cell lysate(40ug)

Lane2:LO2 whole cell lysate(40ug)

Lane3:HEK293T whole cell lysate(40ug)

### Note:

For research use only, not for use in diagnostic procedure.

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