

Nur für Forschungszwecke

Phospho-GYS1 (Ser641) Polyklonaler Antikörper



Katalog-Nr.: 28855-1-AP

Allgemeine Informationen

Katalog-Nr.:
28855-1-AP

Größe:
100ul, Konzentration: 300 µg/ml von
Nanodrop;

Wirt:
Kaninchen

Isotyp:
IgG

GenBank-Zugangsnummer:
BC007688

GeneID (NCBI):
2997

Vollständiger Name:
glycogen synthase 1 (muscle)

Berechnete Masse:
84 kDa

Beobachtete Masse:
84 kDa

Reinigungsmethode:
Protein-A-Reinigung

Empfohlene Verdünnungen:
WB 1:2000-1:12000

Anwendungen

Geprüfte Anwendungen:
WB, ELISA
Getestete Reaktivität:
Human

Positivkontrollen:
WB: λ phosphatase treated PC-3 cells,

Hintergrundinformationen

Glycogen synthase 1 (GYS1, GS) catalyzes the key step of glycogen synthesis and plays an important role in glycogen metabolism in liver and muscle. In kidney tissues, glycogen synthase 1 (GYS1) is the most important rate-limiting enzyme functioning in the last step of glycogen synthesis. Pathologically, its deficiency has been shown to cause muscle glycogen storage disease type 0 and death. Studies of tumors showed that GYS1 was rapidly induced under hypoxic conditions and positively correlated with glycogen accumulation in glioblastoma, breast, and colon cancer cell lines. GYS1 is phosphorylated at nine sites and insulin stimulates dephosphorylation of glycogen synthase. Insulin stimulates dephosphorylation of glycogen synthase via PKB-mediated phosphorylation of GSK3. Phosphorylation of GSK3 decreases kinase activity which will decrease phosphorylation of GS and increase glycogen synthase fractional activity. (PMID: 32802186, PMID: 30443599, PMID: 22232606)

Lagerung

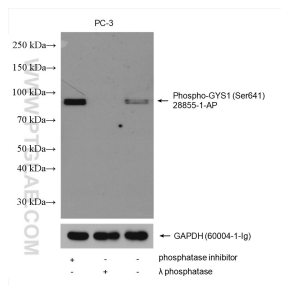
Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Ausgewählte Validierungsdaten



Non-treated PC-3 cells, phosphatase inhibitor treated and λ phosphatase PC-3 cells were subjected to SDS PAGE followed by western blot with 28855-1-AP (Phospho-GYS1 (Ser641) antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.