

PYGB (h3): 293 Lysate: sc-170704

BACKGROUND

Glycolysis is an evolutionarily conserved series of 10 chemical reactions that utilizes 11 enzymes to concomitantly generate pyruvate and ATP from glucose. Phospho-fructose kinase-2/fructose 2,6-bisphosphatase (PFK-2) stimulates the synthesis and degradation of fructose 2,6-bisphosphate. Glycogen phosphorylase (also known as GP) is an allosteric enzyme important in carbohydrate metabolism. Its activity is regulated through either noncovalent binding of metabolites or by covalent modification. Glycogen phosphorylase catalyzes the phosphorylation of glycogen to Glc-1-P. There are three genes which encode the brain, liver and muscle forms of glycogen phosphorylase: PYGB, PYGL and PYGM, respectively. Because of its fundamental role in the metabolism of glycogen, glycogen phosphorylase has been a target for the design of inhibitory compounds, which could be valuable in the therapeutic treatment of type 2 diabetes mellitus.

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: PYGB (human) mapping to 20p11.21.

PRODUCT

PYGB (h3): 293 Lysate represents a lysate of human PYGB transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

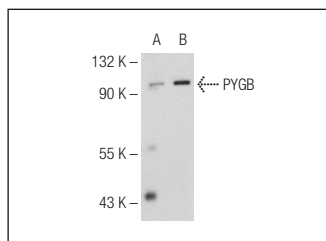
APPLICATIONS

PYGB (h3): 293 Lysate is suitable as a Western Blotting positive control for human reactive PYGB antibodies. Recommended use: 10-20 µl per lane.

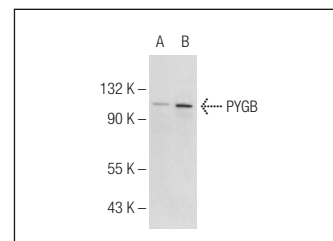
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

PYGB/M (9F5): sc-51929 is recommended as a positive control antibody for Western Blot analysis of enhanced human PYGB expression in PYGB transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



PYGB/M (9F5): sc-51929. Western blot analysis of PYGB expression in non-transfected: sc-110760 (A) and human PYGB transfected: sc-170704 (B) 293 whole cell lysates.



PYGB/M (6F1): sc-51926. Western blot analysis of PYGB expression in non-transfected: sc-110760 (A) and human PYGB transfected: sc-170704 (B) 293 whole cell lysates.

RESEARCH USE

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