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SUCLG2 (h): 293T Lysate: sc-116041

BACKGROUND

SUCLG2 (succinate-CoA ligase, GDP-forming, β subunit), also known as G-BETA, succinyl-CoA ligase [GDP-forming] subunit β , mitochondrial, GTP-specific succinyl-CoA synthetase subunit β , succinyl-CoA synthetase β -G chain or SCS- β G, is a 432 amino acid protein belonging to the succinate/malate CoA ligase β subunit family. SUCLG2 is widely expressed, localizes to mitochondria and contains one ATP-grasp domain. SUCLG2 dimerizes with SUCLG1 (succinyl-CoA synthetase) to form G-SCS, a GTP specific enzyme. SUCLG2 has an active role in the tricarboxylic acid cycle of carbohydrate metabolism by catalyzing the reaction of GTP, succinate and CoA to form GDP, a phosphate and succinyl-CoA. The gene encoding SUCLG2 maps to human chromosome 3p14.1.

REFERENCES

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5. Kowluru, A. 2001. Adenine and guanine nucleotide-specific succinyl-CoA synthetases in the clonal β -cell mitochondria: implications in the β -cell high-energy phosphate metabolism in relation to physiological Insulin secretion. *Diabetologia* 44: 89-94.
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CHROMOSOMAL LOCATION

Genetic locus: SUCLG2 (human) mapping to 3p14.1.

PRODUCT

SUCLG2 (h): 293T Lysate represents a lysate of human SUCLG2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

RESEARCH USE

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

APPLICATIONS

SUCLG2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SUCLG2 antibodies. Recommended use: 10-20 μ l per lane.

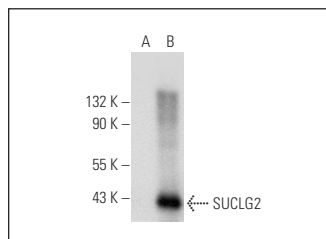
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SUCLG2 (C-1): sc-393756 is recommended as a positive control antibody for Western Blot analysis of enhanced human SUCLG2 expression in SUCLG2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



SUCLG2 (C-1): sc-393756. Western blot analysis of SUCLG2 expression in non-transfected: sc-117752 (A) and human SUCLG2 transfected: sc-116041 (B) 293T whole cell lysates.

PROTOCOLS

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