

SUDD (m): 293T Lysate: sc-123833

BACKGROUND

The phosphorylation and dephosphorylation of proteins on serine and threonine residues is an essential means of regulating a broad range of cellular functions in eukaryotes, including cell division, homeostasis and apoptosis. A group of proteins that are intimately involved in this process are the serine/threonine (Ser/Thr) protein kinases. SUDD, also known as RIOK3 (RIO kinase 3), is a 519 amino acid protein that contains one protein kinase domain and belongs to the Ser/Thr protein kinase family. Expressed in a variety of tissues, SUDD catalyzes the ATP-dependent phosphorylation of target proteins, thereby influencing signaling events throughout the cell. SUDD is expressed as two isoforms due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RioK3 (mouse) mapping to 18 A1.

PRODUCT

SUDD (m): 293T Lysate represents a lysate of mouse SUDD transfected 293T cells and is provided as 100 µg protein in 200 µl 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.

PROTOCOLS

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

APPLICATIONS

SUDD (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SUDD antibodies. Recommended use: 10-20 µl per lane.

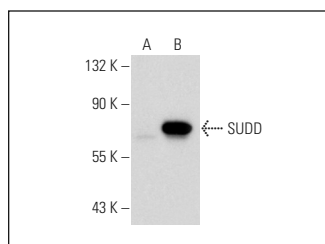
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SUDD (RS-31): sc-100435 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SUDD expression in SUDD 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-IgGκ BP-HRP: sc-516102 or m-IgGκ 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



SUDD (RS-31): sc-100435. Western blot analysis of SUDD expression in non-transfected: sc-117752 (A) and mouse SUDD transfected: sc-123833 (B) 293T whole cell lysates.

RESEARCH USE

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