

# SDSL (m): 293T Lysate: sc-123413

## BACKGROUND

L-serine dehydratase, known simply as serine dehydratase (SDS), is one of three main enzymes that are involved in the metabolism of glycine and serine. Specifically, L-serine dehydratase localizes to the liver and functions to enzymatically convert L-serine to pyruvate and ammonia in a pyridoxal phosphate-dependent manner. SDSL (serine dehydratase-like), also known as SDS-RS1 or serine dehydratase 2, is a 329 amino acid protein that, like L-serine dehydratase, uses pyridoxal phosphate. One of several members of the serine/threonine dehydratase family, SDSL may function as a serine-specific dehydratase that plays a role in protein metabolism.

## REFERENCES

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5. López-Flores, I., Barroso, J.B., Valderrama, R., Esteban, F.J., Martínez-Lara, E., Luque, F., Peinado, M.A., Ogawa, H., Lupiáñez, J.A. and Peragón, J. 2005. Serine dehydratase expression decreases in rat livers injured by chronic thioacetamide ingestion. *Mol. Cell. Biochem.* 268: 33-43.

## CHROMOSOMAL LOCATION

Genetic locus: *Sdsl* (mouse) mapping to 5 F.

## PRODUCT

SDSL (m): 293T Lysate represents a lysate of mouse SDSL 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](http://www.scbt.com) for detailed protocols and support products.

## APPLICATIONS

SDSL (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive SDSL 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.

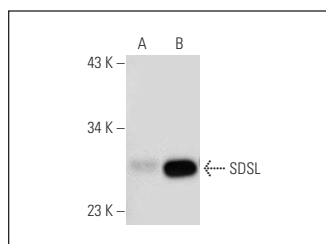
SDSL (73-K5): sc-100586 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse SDSL expression in SDSL transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## 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



SDSL (73-K5): sc-100586. Western blot analysis of SDSL expression in non-transfected: sc-117752 (A) and mouse SDSL transfected: sc-123413 (B) 293T whole cell lysates.

## RESEARCH USE

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