

SDSL (73-K5): sc-100586

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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CHROMOSOMAL LOCATION

Genetic locus: SDSL (human) mapping to 12q24.13.

SOURCE

SDSL (73-K5) is a mouse monoclonal antibody raised against recombinant SDSL of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

SDSL (73-K5) is recommended for detection of SDSL of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SDSL siRNA (h): sc-96056, SDSL shRNA Plasmid (h): sc-96056-SH and SDSL shRNA (h) Lentiviral Particles: sc-96056-V.

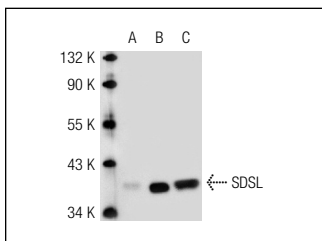
Molecular Weight of SDSL: 35 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

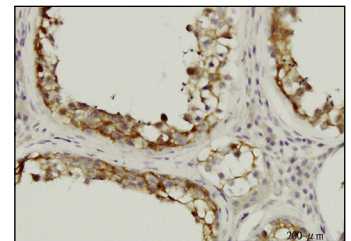
RECOMMENDED SUPPORT REAGENTS

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, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



SDSL (73-K5): sc-100586. Western blot analysis of SDSL expression in non-transfected 293T: sc-117752 (A), mouse SDSL transfected 293T: sc-123413 (B) and Hep G2 (C) whole cell lysates.



SDSL (73-K5): sc-100586. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human testis tissue showing membrane and cytoplasmic localization.

RESEARCH USE

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

PROTOCOLS

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