

ZCSL3 (h): 293T Lysate: sc-117135

BACKGROUND

The CSL-type zinc finger-containing proteins (ZCSLs) are homologs of the *S. cerevisiae* diphthamide methyltransferase proteins (DPHs). These enzymes are involved in the synthesis of diphthamide, a protein found on translation elongation factor EF-2 that is the target of bacterial ADP-ribosylating toxins. ZCSL1, ZCSL2 and ZCSL3 (CSL-type zinc finger-containing protein 1, 2 and 3, respectively) are members of the ZCSL family of proteins and each contain one DPH-type zinc finger. ZCSL2, also known as DPH3 or DESR1, is highly expressed in spleen, heart, lung, liver and thymus and is essential in the first step of diphthamide synthesis. Downregulation of ZCSL2 increases the release of proteoglycans, suggesting a possible role in protein secretion. ZCSL1 and ZCSL3, also known as DPH3B and DPH4, respectively, are additional members of the ZCSL family of diphthamide-synthesizing enzymes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DNAJC24 (human) mapping to 11p13.

PRODUCT

ZCSL3 (h): 293T Lysate represents a lysate of human ZCSL3 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ZCSL3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZCSL3 antibodies. Recommended use: 10-20 µl per lane.

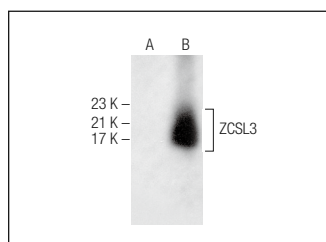
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZCSL3 (E-3): sc-166811 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZCSL3 expression in ZCSL3 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



ZCSL3 (E-3): sc-166811. Western blot analysis of ZCSL3 expression in non-transfected: sc-117752 (A) and human ZCSL3 transfected: sc-117135 (B) 293T whole cell lysates.

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.

PROTOCOLS

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