

ZCSL1/2 (C-16): sc-67993



The Power to Question

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. Down-regulation 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: DPH3B (human) mapping to 20q13.33, DPH3 (human) mapping to 3p24.3.

SOURCE

ZCSL1/2 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZCSL1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-67993 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZCSL1/2 (C-16) is recommended for detection of ZCSL1 and ZCSL2 of human origin and, to a lesser extent, ZCSL2 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of ZCSL1: 8 kDa.

Molecular Weight of ZCSL2: 9 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. 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 or our catalog for detailed protocols and support products.