

DIS3L (W-18): sc-242579

BACKGROUND

The exosome is a multisubunit complex composed of several highly conserved subunits, some of which are 3' to 5' exonucleases. The complex is involved in a variety of cellular processes and is responsible for degrading unstable mRNAs that contain AU-rich (ARE) elements in their untranslated 3' region. DIS3L (DIS3 mitotic control homolog (*S. cerevisiae*)-like) is a 1,054 amino acid exonuclease belonging to the ribonuclease II (RNB) family. Existing as three alternatively spliced isoforms, DIS3L may be required for the 3' processing of pre-mRNA into mature mRNA. DIS3L is encoded by a gene located on human chromosome 15, which houses over 700 genes and comprises nearly 3% of the human genome. Angelman syndrome, Prader-Willi syndrome, Tay-Sachs disease and Marfan syndrome are all associated with defects in chromosome 15-localized genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DIS3L (human) mapping to 15q22.31; Dis3l (mouse) mapping to 9 C.

RESEARCH USE

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

SOURCE

DIS3L (W-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DIS3L 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-242579 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DIS3L (W-18) is recommended for detection of DIS3L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with DIS3 or DIS3L2.

DIS3L (W-18) is also recommended for detection of DIS3L in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DIS3L siRNA (h): sc-89907, DIS3L siRNA (m): sc-143046, DIS3L shRNA Plasmid (h): sc-89907-SH, DIS3L shRNA Plasmid (m): sc-143046-SH, DIS3L shRNA (h) Lentiviral Particles: sc-89907-V and DIS3L shRNA (m) Lentiviral Particles: sc-143046-V.

Molecular Weight of DIS3L: 121 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.

PROTOCOLS

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



Try **DIS3L (E-12): sc-398739**, our highly recommended monoclonal alternative to DIS3L (W-18).