

CCDC16 (h2): 293T Lysate: sc-174469

BACKGROUND

CCDC16 (coiled-coil domain-containing protein 16), also known as ZNF830, OMCG1 (ovum mutant candidate gene 1) or SEL13, is a 372 amino acid protein that belongs to the C₂H₂-type zinc finger family of proteins. Localizing to the nucleus, CCDC16 contains one U1-type zinc finger motif and is involved in pre-mRNA splicing. CCDC16 functions as a component of a pre-mRNA splicing complex of the spliceosome (composed of AQR (aquarius), PRP19, CCDC16, HCNP, ISY1 and Cyclophilin E) and is required for proper RNA synthesis in the cell. Pre-mRNA splicing is essential to remove internal non-coding regions of pre-mRNA (introns) and to join the remaining segments (exons) into mRNA before translation. In preimplantation embryos, CCDC16 is believed to play an important role in cell cycle regulation. Further supporting its vital role in embryos, the disruption of CCDC16 leads to early embryonic lethality. Upon DNA damage, CCDC16 is phosphorylated by ATM or ATR.

REFERENCES

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5. Kuraoka, I., Ito, S., Wada, T., Hayashida, M., Lee, L., Saijo, M., Nakatsu, Y., Matsumoto, M., Matsunaga, T., Handa, H., Qin, J., Nakatani, Y. and Tanaka, K. 2008. Isolation of XAB2 complex involved in pre-mRNA splicing, transcription, and transcription-coupled repair. *J. Biol. Chem.* 283: 940-950.

CHROMOSOMAL LOCATION

Genetic locus: ZNF830 (human) mapping to 17q12.

PRODUCT

CCDC16 (h2): 293T Lysate represents a lysate of human CCDC16 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 for detailed protocols and support products.

APPLICATIONS

CCDC16 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive CCDC16 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.

RESEARCH USE

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