



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Edc3 (m2): 293T Lysate: sc-119916

### BACKGROUND

The major eukaryotic mRNA decay pathway occurs through deadenylation, decapping, and 5' to 3' degradation of the mRNA. Decapping is a critical control point in this decay pathway. During the process of mRNA degradation, Edc3 has been found to play a role in mRNA decapping. As part of the mRNA degradation process, Edc3 becomes part of a complex that also contains hDcp1a, hDcp2a, RCK and Edc4/HEDLS. Within this complex, Edc3 directly interacts with DCP1A and DDX6. Edc3, enhancer of mRNA-decapping protein 3, is a 508 amino acid protein that maps to human gene EDC3. Edc3 is a member of the Edc3 family and contains one YjeF N-terminal domain. Edc3 is localized to the cytoplasm and is found primarily in the processing bodies (PBs) of the cell. Evidence indicates Edc3 also interacts with TTP (zinc finger protein 36), a candidate gene for obesity-related metabolic complications.

### REFERENCES

1. Dunckley, T., et al. 2001. Two related proteins, Edc1p and Edc2p, stimulate mRNA decapping in *Saccharomyces cerevisiae*. *Genetics* 157: 27-37.
2. Schwartz, D., et al. 2003. The enhancer of decapping proteins, Edc1p and Edc2p, bind RNA and stimulate the activity of the decapping enzyme. *RNA* 9: 239-251.
3. Kshirsagar, M. and Parker, R. 2004. Identification of Edc as an enhancer of mRNA decapping in *Saccharomyces cerevisiae*. *Genetics* 166: 729-739.
4. Fenger-Grøn, M., et al. 2005. Multiple processing body factors and the ARE binding protein TTP activate mRNA decapping. *Mol. Cell* 20: 905-915.
5. Beausoleil, S.A., et al. 2006. A probability-based approach for high-throughput protein phosphorylation analysis and site localization. *Nat. Biotechnol.* 24: 1285-1292.
6. Rudolph, C., et al. 2007. ApoA-I-binding protein (AI-BP) and its homologues hYjeF\_N2 and hYjeF\_N3 comprise the YjeF\_N domain protein family in humans with a role in spermiogenesis and oogenesis. *Horm. Metab. Res.* 39: 322-335.
7. Dong, S., et al. 2007. Yra1 autoregulation requires nuclear export and cytoplasmic Edc3p-mediated degradation of its pre-mRNA. *Mol. Cell* 25: 559-573.
8. Tritschler, F., et al. 2007. A divergent Sm-fold in Edc3 proteins mediates DCP1-binding and P-body targeting. *Mol. Cell. Biol.* 27: 8600-8611.

### CHROMOSOMAL LOCATION

Genetic locus: Edc3 (mouse) mapping to 9 B.

### PRODUCT

Edc3 (m2): 293T Lysate represents a lysate of mouse Edc3 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.

### APPLICATIONS

Edc3 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Edc3 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.