



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# RBM9 (h4): 293T Lysate: sc-174118

## BACKGROUND

RBM9 (RNA binding motif protein 9), also known as RTA, fkh, FOX2, Fox-2, HNRBP2 or HRNBP2, is a 390 amino acid protein that contains one RRM (RNA recognition motif) domain. RBM9 is thought to be a key regulator of alternative exon splicing in the nervous system and other cell types. RBM9 regulates the splicing activity of the highly conserved RNA 5'-UGCAUGU-3' element, an intron splicing enhancer that is often located adjacent to tissue-specific alternative exons. RBM9 prevents binding of U2AF65 (U2 snRNP auxiliary factor large subunit) to the 3' splice site of the RNA splicing element which affects alternative splicing of tissue-specific exons. RBM9 also interacts with the ER $\alpha$  (estrogen receptor  $\alpha$ ) transcription factor and regulates ER $\alpha$  transcriptional activity. Eight isoforms of RBM9 exist due to alternative splicing events.

## REFERENCES

- Underwood, J.G., Boutz, P.L., Dougherty, J.D., Stoilov, P. and Black, D.L. 2005. Homologues of the *Caenorhabditis elegans* Fox-1 protein are neuronal splicing regulators in mammals. *Mol. Cell. Biol.* 25: 10005-10016.
- Minovitsky, S., Gee, S.L., Schokrpur, S., Dubchak, I. and Conboy, J.G. 2005. The splicing regulatory element, UGCAUG, is phylogenetically and spatially conserved in introns that flank tissue-specific alternative exons. *Nucleic Acids Res.* 33: 714-724.
- Ponthier, J.L., Schluenzen, C., Chen, W., Lersch, R.A., Gee, S.L., Hou, V.C., Lo, A.J., Short, S.A., Chasis, J.A., Winkelmann, J.C. and Conboy, J.G. 2006. Fox-2 splicing factor binds to a conserved intron motif to promote inclusion of protein 4.1R alternative exon 16. *J. Biol. Chem.* 281: 12468-12474.
- Zhou, H.L., Baraniak, A.P. and Lou, H. 2007. Role for Fox-1/Fox-2 in mediating the neuronal pathway of Calcitonin/Calcitonin gene-related peptide alternative RNA processing. *Mol. Cell. Biol.* 27: 830-841.
- Yang, G., Huang, S.C., Wu, J.Y. and Benz, E.J. 2008. Regulated Fox-2 isoform expression mediates protein 4.1R splicing during erythroid differentiation. *Blood* 111: 392-401.
- Zhang, C., Zhang, Z., Castle, J., Sun, S., Johnson, J., Krainer, A.R. and Zhang, M.Q. 2008. Defining the regulatory network of the tissue-specific splicing factors Fox-1 and Fox-2. *Genes Dev.* 22: 2550-2563.
- Zhou, H.L. and Lou, H. 2008. Repression of prespliceosome complex formation at two distinct steps by Fox-1/Fox-2 proteins. *Mol. Cell. Biol.* 28: 5507-5516.

## CHROMOSOMAL LOCATION

Genetic locus: RBFOX2 (human) mapping to 22q12.3.

## PRODUCT

RBM9 (h4): 293T Lysate represents a lysate of human RBM9 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## STORAGE

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

RBM9 (h4): 293T Lysate is suitable as a Western Blotting positive control for human reactive RBM9 antibodies. Recommended use: 10-20  $\mu$ l 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.