

ZRANB2 (h2): 293T Lysate: sc-370093

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZRANB2 (zinc finger Ran-binding domain-containing protein 2), also known as ZNF265 (zinc finger protein 265), ZIS, ZIS1 or ZIS2, is a 330 amino acid protein that belongs to the ZRANB2 family. Localized to the nucleus, ZRANB2 functions as a splicing factor that is responsible for alternatively splicing Tra-2 β (transformer-2 β) transcripts and is thought to interfere with constitutive 5'-splice selection. ZRANB2 contains two RanBP2-type zinc fingers through which it conveys its RNA-binding activity. Two isoforms, designated ZIS-1 and ZIS-2, are expressed due to alternative splicing events. Upon DNA damage, ZIS-2 may be phosphorylated by ATM or ATR.

REFERENCES

1. Nakano, M., Yoshiura, K., Oikawa, M., Miyoshi, O., Yamada, K., Kondo, S., Miwa, N., Soeda, E., Jinno, Y., Fujii, T. and Niikawa, N. 1998. Identification, characterization and mapping of the human ZIS (zinc-finger, splicing) gene. *Gene* 225: 59-65.
2. Adams, D.J., van der Weyden, L., Kovacic, A., Lovicu, F.J., Copeland, N.G., Gilbert, D.J., Jenkins, N.A., Ioannou, P.A. and Morris, B.J. 2000. Chromosome localization and characterization of the mouse and human zinc finger protein 265 gene. *Cytogenet. Cell Genet.* 88: 68-73.
3. Adams, D.J., van der Weyden, L., Mayeda, A., Stamm, S., Morris, B.J. and Rasko, J.E. 2001. ZNF265—a novel spliceosomal protein able to induce alternative splicing. *J. Cell Biol.* 154: 25-32.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604347. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Plambeck, C.A., Kwan, A.H., Adams, D.J., Westman, B.J., van der Weyden, L., Medcalf, R.L., Morris, B.J. and Mackay, J.P. 2003. The structure of the zinc finger domain from human splicing factor ZNF265 fold. *J. Biol. Chem.* 278: 22805-22811.

CHROMOSOMAL LOCATION

Genetic locus: ZRANB2 (human) mapping to 1p31.1.

PRODUCT

ZRANB2 (h2): 293T Lysate represents a lysate of human ZRANB2 (h2) transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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

ZRANB2 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZRANB2 (h2) antibodies. Recommended use: 10-20 μ 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.