DDX43 (h): 293 Lysate: sc-128420



The Power to Question

BACKGROUND

DEAD-box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp, are putative RNA helicases implicated in several cellular processes involving modifications of RNA secondary structure and ribosome/spliceosome assembly. Based on their distribution patterns, some members of this family may be involved in embryogenesis, spermatogenesis and cellular growth and division. DDX43 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 43), also known as CT13 or HAGE, is a 648 amino acid protein that contains one KH domain, one helicase C-terminal domain and one helicase ATP-binding domain and belongs to the DEAD-box family. Expressed in testis and present at abnormally high levels in a variety of tumors, DDX43 is thought to function as an ATP-dependent RNA helicase that may play a role tumor transformation and metastasis.

REFERENCES

- Schmid, S.R. and Linder, P. 1992. DEAD protein family of putative RNA helicases. Mol. Microbiol. 6: 283-291.
- 2. Martelange, V., De Smet, C., De Plaen, E., Lurquin, C. and Boon, T. 2000. Identification on a human sarcoma of two new genes with tumor-specific expression. Cancer Res. 60: 3848-3855.
- Abdelhaleem, M., Maltais, L. and Wain, H. 2003. The human DDX and DHX gene families of putative RNA helicases. Genomics 81: 618-622.
- 4. Nagel, H., Laskawi, R., Eiffert, H. and Schlott, T. 2003. Analysis of the tumour suppressor genes, FHIT and WT-1, and the tumour rejection genes, BAGE, GAGE-1/2, HAGE, MAGE-1, and MAGE-3, in benign and malignant neoplasms of the salivary glands. Mol. Pathol. 56: 226-231.
- 5. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 606286. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Cordin, O., Tanner, N.K., Doère, M., Linder, P. and Banroques, J. 2004. The newly discovered Q motif of DEAD-box RNA helicases regulates RNA-binding and helicase activity. EMBO J. 23: 2478-2487.
- 7. Linder, P. 2006. DEAD-box proteins: a family affair—active and passive players in RNP-remodeling. Nucleic Acids Res. 34: 4168-4180.
- 8. Mathieu, M.G., Knights, A.J., Pawelec, G., Riley, C.L., Wernet, D., Lemonnier, F.A., Straten, P.T., Mueller, L., Rees, R.C. and McArdle, S.E. 2007. HAGE, a cancer/testis antigen with potential for melanoma immunotherapy: identification of several MHC class I/II HAGE-derived immunogenic peptides. Cancer Immunol. Immunother. 56: 1885-1895.

CHROMOSOMAL LOCATION

Genetic locus: DDX43 (human) mapping to 6q13.

PRODUCT

DDX43 (h): 293 Lysate represents a lysate of human DDX43 transfected 293 cells and is provided as 100 µg protein in 200 µl 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

DDX43 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive DDX43 antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures

PROTOCOLS

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

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