

DDX30 (m): 293T Lysate: sc-119718

BACKGROUND

Characterized by the conserved motif Asp-Glu-Ala-Asp, DEAD box proteins are putative RNA helicases implicated in several cellular processes involving modifications of RNA secondary structure. Specifically, DEAD box proteins are involved in translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, members of this family may be involved in embryogenesis, spermatogenesis, and cellular growth and division. DDX30, DDX35 and DDX36 each contain 1 helicase ATP-binding domain and 1 helicase C-terminal domain. DDX30 (DEAD box protein 30) is a 1,194 amino acid protein that forms a complex with TFAM and SSBP1 in the mitochondria, suggesting a role for DDX30 in mtDNA replication. There are two isoforms of DDX30 that exist as a result of alternative splicing events.

REFERENCES

1. Fu, J.J., Li, L.Y. and Lu, G.X. 2002. Molecular cloning and characterization of human DDX36 and mouse Ddx36 genes, new members of the DEAD/H box superfamily. *Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao* 34: 655-661.
2. Fu, J.J., Li, L.Y., Liu, S.F., Xing, X.W., Liu, G. and Lu, G.X. 2003. Expression research for human DDX36 and mouse Ddx36 gene in the adult testis. *Yi Chuan Xue Bao* 30: 201-208.
3. Abdelhaleem, M. 2005. RNA helicases: regulators of differentiation. *Clin. Biochem.* 38: 499-503.
4. Cordin, O., Banroques, J., Tanner, N.K. and Linder, P. 2006. The DEAD-box protein family of RNA helicases. *Gene* 367: 17-37.
5. Wang, Y. and Bogenhagen, D.F. 2006. Human mitochondrial DNA nucleoids are linked to protein folding machinery and metabolic enzymes at the mitochondrial inner membrane. *J. Biol. Chem.* 281: 25791-25802.
6. Linder, P. 2006. Dead-box proteins: a family affair—active and passive players in RNP-remodeling. *Nucleic Acids Res.* 34: 4168-4180.
7. Fuller-Pace, F.V. and Ali, S. 2008. The DEAD box RNA helicases p68 (Ddx5) and p72 (Ddx17): novel transcriptional co-regulators. *Biochem. Soc. Trans.* 36: 609-612.
8. Cantin, G.T., Yi, W., Lu, B., Park, S.K., Xu, T., Lee, J.D. and Yates, J.R. 2008. Combining protein-based IMAC, peptide-based IMAC, and MudPIT for efficient phosphoproteomic analysis. *J. Proteome Res.* 7: 1346-1351.

CHROMOSOMAL LOCATION

Genetic locus: DHX30 (mouse) mapping to 9 F2.

PRODUCT

DDX30 (m): 293T Lysate represents a lysate of mouse DDX30 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

DDX30 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive DDX30 antibodies. Recommended use: 10-20 µl per lane.

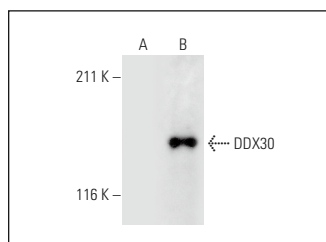
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

DDX30 (D-9): sc-390663 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse DDX30 expression in DDX30 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



DDX30 (D-9): sc-390663. Western blot analysis of DDX30 expression in non-transfected: sc-117752 (A) and mouse DDX30 transfected: sc-119718 (B) 293T whole cell lysates.

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.