

DDX43 (N-13): sc-132259

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.
- 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.
- 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.
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CHROMOSOMAL LOCATION

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

SOURCE

DDX43 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of DDX43 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-132259 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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

APPLICATIONS

DDX43 (N-13) is recommended for detection of DDX43 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other DDX family members.

DDX43 (N-13) is also recommended for detection of DDX43 in additional species, including canine.

Suitable for use as control antibody for DDX43 siRNA (h): sc-95099, DDX43 shRNA Plasmid (h): sc-95099-SH and DDX43 shRNA (h) Lentiviral Particles: sc-95099-V.

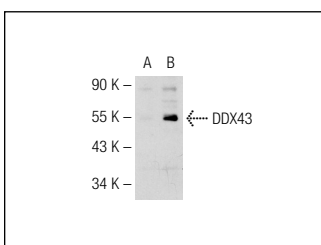
Molecular Weight of DDX43: 73 kDa.

Positive Controls: DDX43 (h): 293 Lysate: sc-128420.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



DDX43 (N-13): sc-132259. Western blot analysis of DDX43 expression in non-transfected: sc-110760 (A) and human DDX43 transfected: sc-128420 (B) 293 whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.



Try **DDX43 (LW-M1): sc-134311**, our highly recommended monoclonal alternative to DDX43 (N-13).