# DDX49 (C-11): sc-514928



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. DDX49 (DEAD-box protein 49) is a 483 amino acid protein that contains one helicase ATP-binding domain and one helicase C-terminal domain. One of several members of the DEAD-box protein family, DDX49 may function as a an RNA helicase that is involved in pre-mRNA splicing events.

# **REFERENCES**

- Maruyama, K., et al. 1994. Oligo-capping: a simple method to replace the cap structure of eukaryotic mRNAs with oligoribonucleotides. Gene 138: 171-174.
- Andersen, J.S., et al. 2002. Directed proteomic analysis of the human nucleolus. Curr. Biol. 12: 1-11.
- 3. Abdelhaleem, M., et al. 2003. The human DDX and DHX gene families of putative RNA helicases. Genomics 81: 618-622.
- Abdelhaleem, M. 2004. Overexpression of RNA helicases in cancer. Anticancer Res. 24: 3951-3953.
- Abdelhaleem, M. 2005. RNA helicases: regulators of differentiation. Clin. Biochem. 38: 499-503.

# CHROMOSOMAL LOCATION

Genetic locus: DDX49 (human) mapping to 19p13.11; Ddx49 (mouse) mapping to 8 B3.3.

# **SOURCE**

DDX49 (C-11) is a mouse monoclonal antibody raised against amino acids 2-202 mapping near the N-terminus of DDX49 of human origin.

# **PRODUCT**

Each vial contains 200  $\mu g$   $lgG_1$  in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DDX49 (C-11) is available conjugated to agarose (sc-514928 AC), 500  $\mu$ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-514928 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514928 PE), fluorescein (sc-514928 FITC), Alexa Fluor® 488 (sc-514928 AF488), Alexa Fluor® 546 (sc-514928 AF546), Alexa Fluor® 594 (sc-514928 AF594) or Alexa Fluor® 647 (sc-514928 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514928 AF680) or Alexa Fluor® 790 (sc-514928 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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# **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

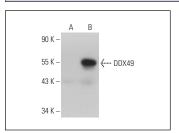
DDX49 (C-11) is recommended for detection of DDX49 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DDX49 siRNA (h): sc-97556, DDX49 siRNA (m): sc-142941, DDX49 shRNA Plasmid (h): sc-97556-SH, DDX49 shRNA Plasmid (m): sc-142941-SH, DDX49 shRNA (h) Lentiviral Particles: sc-97556-V and DDX49 shRNA (m) Lentiviral Particles: sc-142941-V.

Molecular Weight of DDX49: 54 kDa.

Positive Controls: DDX49 (h2): 293T Lysate: sc-371464.

# **DATA**



DDX49 (C-11): sc-514928. Western blot analysis of DDX49 expression in non-transfected: sc-117752 (A) and human DDX49 transfected: sc-371464 (B) 293T whole cell Ivsates.

#### **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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