# DDX10 (N-13): sc-132643



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. DDX10 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 10), also known as HRH-J8, is an 875 amino acid ATP-dependent RNA helicase that is widely expressed and belongs to the DEAD box helicase family. Highly expressed in testis, DDX10 may be involved in ribosome assembly. It is suggested that defects in the gene encoding DDX10 may be a cause of breast cancer. DDX10 contains a helicase ATP-binding domain and a helicase C-terminal domain.

# **REFERENCES**

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- Cordin, O., et al. 2004. The newly discovered Q motif of DEAD-box RNA helicases regulates RNA-binding and helicase activity. EMBO J. 23: 2478-2487.
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# **CHROMOSOMAL LOCATION**

Genetic locus: DDX10 (human) mapping to 11q22.3; Ddx10 (mouse) mapping to 9 A5.3.

# **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.

#### **SOURCE**

DDX10 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DDX10 of human origin.

## **PRODUCT**

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

Blocking peptide available for competition studies, sc-132643 P, ( $100 \mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

DDX10 (N-13) is recommended for detection of DDX10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

Suitable for use as control antibody for DDX10 siRNA (h): sc-97040, DDX10 siRNA (m): sc-142920, DDX10 shRNA Plasmid (h): sc-97040-SH, DDX10 shRNA Plasmid (m): sc-142920-SH, DDX10 shRNA (h) Lentiviral Particles: sc-97040-V and DDX10 shRNA (m) Lentiviral Particles: sc-142920-V.

Molecular Weight of DDX10: 101 kDa.

# **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) 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.

## **RESEARCH USE**

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

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