**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. DDX16 (DEAD-box protein 16), also known as DHX16, DBP2, PRP8 or PRO2014, is a 1,041 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, DDX16 localizes to the nucleus and is thought to function as an RNA helicase that is involved in pre-mRNA splicing events, playing an important role in cell cycle progression. The gene encoding DDX16 is located on a region of chromosome 6 that is associated with a variety of diseases, including malignancies and genetic mutations, suggesting a possible role for DDX16 in the pathogenesis of certain disorders.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DHX16 (human) mapping to 6p21.33; Dhx16 (mouse) mapping to 17 B1.

**SOURCE**

DDX16 (24) is a mouse monoclonal antibody raised against amino acids 256-366 of DDX16 of human origin.

**PRODUCT**

Each vial contains 50 µg IgG in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, 20% glycerol and 0.04% stabilizer protein.

**APPLICATIONS**

DDX16 (24) is recommended for detection of DDX16 of mouse, rat and 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for DDX16 siRNA (h): sc-95619, DDX16 siRNA (m): sc-142921, DDX16 shRNA Plasmid (h): sc-95619-SH, DDX16 shRNA Plasmid (m): sc-142921-SH, DDX16 shRNA (h) Lentiviral Particles: sc-95619-V and DDX16 shRNA (m) Lentiviral Particles: sc-142921-V.

Molecular Weight of DDX16: 120 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or U-87 MG cell lysate: sc-2411.

**DATA**

DDX16 (24) sc-135879. Western blot analysis of DDX16 expression in HeLa whole cell lysate.

DDX16 (24) sc-135879. Western blot analysis of DDX16 expression in Jurkat whole cell lysate.

DDX16 (24) sc-135879. Western blot analysis of DDX16 expression in U-87 MG (A), SJRH100 (B) and MIA PaCa-2 (C) whole cell lysates.

DDX16 (24) sc-135879. Immunofluorescence staining of ES-2 cells showing cytoplasmic staining.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

**RESEARCH USE**

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