

DDX36 (N-16): sc-99376

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. 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. DDX36 (DEAH box protein 36), also known as MLE-like protein 1 and RNA helicase associated with AU-rich element ARE, is a 1,008 amino acid protein that is expressed in testis and may function in sex development and spermatogenesis. DDX36 plays a role in degradation and deadenylation of mRNAs that contain the consensus ARE sequence element in their 3'-UTR. There are three isoforms of DDX36 that exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DHX36 (human) mapping to 3q25.2; Dhx36 (mouse) mapping to 3 E1.

SOURCE

DDX36 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DDX36 of human origin.

STORAGE

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

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-99376 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DDX36 (N-16) is recommended for detection of DDX36 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)], 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.

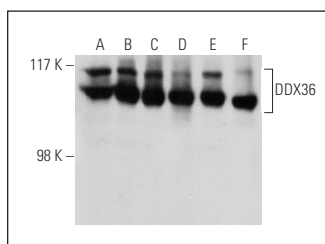
DDX36 (N-16) is also recommended for detection of DDX36 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for DDX36 siRNA (h): sc-78053, DDX36 siRNA (m): sc-142933, DDX36 shRNA Plasmid (h): sc-78053-SH, DDX36 shRNA Plasmid (m): sc-142933-SH, DDX36 shRNA (h) Lentiviral Particles: sc-78053-V and DDX36 shRNA (m) Lentiviral Particles: sc-142933-V.

Molecular Weight of DDX36: 115 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Ramos cell lysate: sc-2216 or BJAB whole cell lysate: sc-2207.

DATA



DDX36 (N-16): sc-99376. Western blot analysis of DDX36 expression in K-562 (A), Ramos (B), Raji (C), NTERA-2 cl.D1 (D) and BJAB (E) whole cell lysates and mouse testis tissue extract (F).

RESEARCH USE

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

PROTOCOLS

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

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Try **DDX36 (B-6): sc-377485** or **DDX36 (E-4): sc-398418**, our highly recommended monoclonal alternatives to DDX36 (N-16).