

DDX30 (S-14): sc-99373

BACKGROUND

Characterized by the conserved motif Asp-Glu-Ala-Asp, DEAD box proteins 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. DDX30 (DEAD box protein 30) is a 1,194 amino acid protein that forms a complex with TFAM and SSBP1 in the mitochondria, suggesting a role for DDX30 in mtDNA replication. There are two isoforms of DDX30 that exist as a result of alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: DHX30 (human) mapping to 3p21.31; Dhx30 (mouse) mapping to 9 F2.

SOURCE

DDX30 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DDX30 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-99373 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.

APPLICATIONS

DDX30 (S-14) is recommended for detection of DDX30 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).

DDX30 (S-14) is also recommended for detection of DDX30 in additional species, including equine.

Suitable for use as control antibody for DDX30 siRNA (h): sc-78188, DDX30 siRNA (m): sc-142930, DDX30 shRNA Plasmid (h): sc-78188-SH, DDX30 shRNA Plasmid (m): sc-142930-SH, DDX30 shRNA (h) Lentiviral Particles: sc-78188-V and DDX30 shRNA (m) Lentiviral Particles: sc-142930-V.

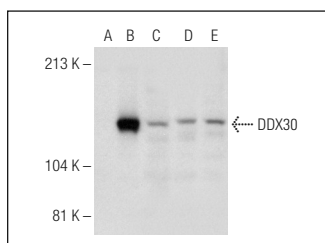
Molecular Weight of DDX30: 134 kDa.

Positive Controls: DDX30 (m): 293T Lysate: sc-119718, Jurkat nuclear extract: sc-2132 or K-562 nuclear extract: sc-2130.

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



DDX30 (S-14): sc-99373. Western blot analysis of DDX30 expression in non-transfected: sc-117752 (A) and mouse DDX30 transfected: sc-119718 (B) 293T whole cell lysates and Jurkat (C), K-562 (D) and Ramos (E) nuclear extracts.

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 **DDX30 (D-9): sc-390663**, our highly recommended monoclonal alternative to DDX30 (S-14).