

# DDX35 (C-20): sc-85524

## 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 one helicase ATP-binding domain and 1 helicase C-terminal domain. DDX35 (DEAH box protein 35) is a 703 amino acid protein that is part of the spliceosome C complex and is involved in pre-mRNA splicing.

## REFERENCES

1. Fu, J.J., et al. 2002. Molecular cloning and characterization of human DDX36 and mouse Ddx36 genes, new members of the DEAD/H box super-family. *Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao* 34: 655-661.
2. Jurica, M.S., et al. 2002. Purification and characterization of native spliceosomes suitable for three-dimensional structural analysis. *RNA* 8: 426-439.
3. Fu, J.J., et al. 2003. Expression research for human DDX36 and mouse Ddx36 gene in the adult testis. *Yi Chuan Xue Bao* 30: 201-208.
4. Abdelhaleem, M. 2005. RNA helicases: regulators of differentiation. *Clin. Biochem.* 38: 499-503.
5. Cordin, O., et al. 2006. The DEAD-box protein family of RNA helicases. *Gene* 367: 17-37.
6. Wang, Y., et al. 2006. Human mitochondrial DNA nucleoids are linked to protein folding machinery and metabolic enzymes at the mitochondrial inner membrane. *J. Biol. Chem.* 281: 25791-25802.
7. Linder, P. 2006. DEAD-box proteins: a family affair—active and passive players in RNP-remodeling. *Nucleic Acids Res.* 34: 4168-4180.
8. Fuller-Pace, F.V., et al. 2008. The DEAD box RNA helicases p68 (DDX5) and p72 (DDX17): novel transcriptional co-regulators. *Biochem. Soc. Trans.* 36: 609-612.

## CHROMOSOMAL LOCATION

Genetic locus: DHX35 (human) mapping to 20q11.23; Dhx35 (mouse) mapping to 2 H1.

## SOURCE

DDX35 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of DDX35 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-85524 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DDX35 (C-20) is recommended for detection of DDX35 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.

DDX35 (C-20) is also recommended for detection of DDX35 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for DDX35 siRNA (h): sc-77110, DDX35 siRNA (m): sc-142932, DDX35 shRNA Plasmid (h): sc-77110-SH, DDX35 shRNA Plasmid (m): sc-142932-SH, DDX35 shRNA (h) Lentiviral Particles: sc-77110-V and DDX35 shRNA (m) Lentiviral Particles: sc-142932-V.

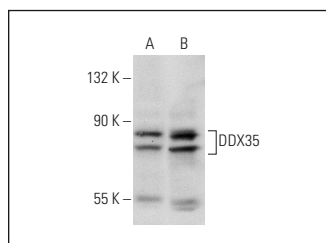
Molecular Weight of DDX35: 79 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

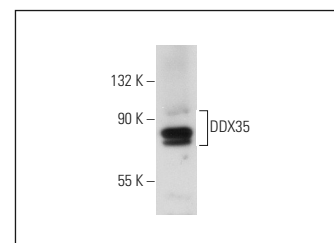
## RECOMMENDED SECONDARY REAGENTS

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



DDX35 (C-20): sc-85524. Western blot analysis of DDX35 expression in K-562 (A) and Jurkat (B) whole cell lysates.



DDX35 (C-20): sc-85524. Western blot analysis of DDX35 expression in mouse kidney tissue extract.

## 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.