

DDX55 (T-15): sc-132656

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 spermatogenesis, embryogenesis and cellular growth and division. DDX55 (DEAD box protein 55) is a 600 amino acid protein that contains one helicase C-terminal domain and one helicase ATP-binding domain and is a member of the DEAD-box helicase family. Like other members of the DEAD-box family, DDX55 is thought to function as an ATP-binding RNA helicase that may play a role in RNA-related cellular processes. Multiple isoforms of DDX55 are expressed due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DDX55 (human) mapping to 12q24.31; Ddx55 (mouse) mapping to 5 F.

SOURCE

DDX55 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DDX55 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.

PROTOCOLS

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

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-132656 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DDX55 (T-15) is recommended for detection of DDX55 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.

DDX55 (T-15) is also recommended for detection of DDX55 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DDX55 siRNA (h): sc-95985, DDX55 siRNA (m): sc-142946, DDX55 shRNA Plasmid (h): sc-95985-SH, DDX55 shRNA Plasmid (m): sc-142946-SH, DDX55 shRNA (h) Lentiviral Particles: sc-95985-V and DDX55 shRNA (m) Lentiviral Particles: sc-142946-V.

Molecular Weight of DDX55: 68 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.