



# DDX55 (S-12): sc-132655

## 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 (S-12) 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](http://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-132655 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DDX55 (S-12) 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.

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.

## 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.