

DDX54 (G-21): sc-101936

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 embryogenesis, spermatogenesis, and cellular growth and division. DDX54 (DEAD polypeptide 54), also known as DP97, is an 881 amino acid protein that contains two bipartite nuclear localization signals, three nuclear receptor boxes (LXXLL motifs), a potential CoRR box, and several stretches of glutamate and lysine residues. DDX54 is ubiquitously expressed, with highest expression in pancreas and lung. DDX54 colocalizes with ER α to structures in the nucleoplasm. DDX54 represses ER α transcriptional activity and acts as a nuclear receptor corepressor against ER β , progesterone, glucocorticoid and RAR α .

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: DDX54 (human) mapping to 12q24.13.

SOURCE

DDX54 (G-21) is a purified rabbit polyclonal antibody raised against DDX54 of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

DDX54 (G-21) is recommended for detection of DDX54 of human and dog origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DDX54 siRNA (h): sc-96216, DDX54 shRNA Plasmid (h): sc-96216-SH and DDX54 shRNA (h) Lentiviral Particles: sc-96216-V.

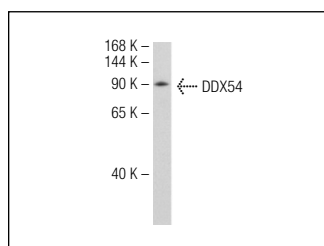
Molecular Weight of DDX54: 99 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

DATA



DDX54 (G-21): sc-101936. Western blot analysis of DDX54 expression in transfected 293T whole cell lysate.

RESEARCH USE

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