SANTA CRUZ BIOTECHNOLOGY, INC.

DDX1 (H-300): sc-134752



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 such as translation initiation, nuclear and mitochondrial splicing and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family may be involved in embryogenesis, spermatogenesis and cellular growth and division. DDX1 mRNA has a widespread distribution in human fetal tissue, but is not uniformly expressed in all tissues. Chicken DDX1, which shares 93% identity with human DDX1, shows highest levels of expression during the early stages of development. Tissue maturation typically correlates with a decrease in DDX1 expression, although DDX1 levels remain elevated in late embryonic retina and brain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DDX1 (human) mapping to 2p24.3; Ddx1 (mouse) mapping to 12 A1.1.

SOURCE

DDX1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of DDX1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

DDX1 (H-300) is recommended for detection of DDX1 of mouse, rat and human 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)], 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).

DDX1 (H-300) is also recommended for detection of DDX1 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for DDX1 siRNA (h): sc-60517, DDX1 siRNA (m): sc-60518, DDX1 shRNA Plasmid (h): sc-60517-SH, DDX1 shRNA Plasmid (m): sc-60518-SH, DDX1 shRNA (h) Lentiviral Particles: sc-60517-V and DDX1 shRNA (m) Lentiviral Particles: sc-60518-V.

Molecular Weight of DDX1: 82 kDa.

Positive Controls: Y79 nuclear extract: sc-2126, Y79 cell lysate: sc-2240 and IMR-32 cell lysate: sc-2409.

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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

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.

PROTOCOLS

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

MONOS Satisfation Guaranteed

Try DDX1 (A-7): sc-271438 or DDX1 (G-4):

sc-271393, our highly recommended monoclonal alternatives to DDX1 (H-300).