DDX21 (D-8): sc-376953

**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. DDX21 (DEAD (Asp-Glu-Ala-Asp) box polypeptide 21), also known as GUA or GURDB, is a 783 amino acid protein that localizes to the nucleus and contains one helicase C-terminal domain and one helicase ATP-binding domain. Existing as multiple alternatively spliced isoforms, DDX21 functions as a component of the multi-protein B-WICH complex and acts as both a helicase that can unwind double-stranded RNA and as a foldase that can introduce secondary structures into single-stranded RNA. DDX21 exists as an autoantigen in people affected by watermelon stomach disease which is often characterized by chronic gastrointestinal bleeding.

**CHROMOSOMAL LOCATION**

Genetic locus: DDX21 (human) mapping to 10q22.1; Ddx21 (mouse) mapping to 10 B4.

**SOURCE**

DDX21 (D-8) is a mouse monoclonal antibody raised against amino acids 684-777 mapping near the C-terminus of DDX21 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG, kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DDX21 (D-8) is available conjugated to agarose (sc-376953 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376953 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-376953 PE), fluorescein (sc-376953 FITC), Alexa Fluor® 488 (sc-376953 AF488), Alexa Fluor® 546 (sc-376953 AF546), Alexa Fluor® 594 (sc-376953 AF594) or Alexa Fluor® 647 (sc-376953 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-376953 AF680) or Alexa Fluor® 790 (sc-376953 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

DDX21 (D-8) is recommended for detection of DDX21 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DDX21 siRNA (h): sc-90420, DDX21 siRNA (m): sc-142925, DDX21 shRNA Plasmid (h): sc-90420-SH, DDX21 shRNA Plasmid (m): sc-142925-SH, DDX21 shRNA (h) Lentiviral Particles: sc-90420-V and DDX21 shRNA (m) Lentiviral Particles: sc-142925-V.

Molecular Weight of DDX21 isoforms: 87/80 kDa.

**STORAGE**

Store at 4°C, **“DO NOT FREEZE”**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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