

DDX33 (S-15): sc-137424

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. DDX33 (DEAD (Asp-Glu-Ala-His) box polypeptide 33), also known as DHX33, is a 707 amino acid nucleolar protein belonging to the DEAD box helicase family. Containing a helicase ATP-binding domain and a helicase C-terminal domain, DDX33 is encoded by a gene located on human chromosome 17. Chromosome 17 comprises over 2.5% of the human genome and encodes over 1,200 genes. Two isoforms of DDX33 exists due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: DHX33 (human) mapping to 17p13.2; Dhx33 (mouse) mapping to 11 B4.

SOURCE

DDX33 (S-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of DDX33 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137424 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

DDX33 (S-15) is recommended for detection of DDX33 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other DDX family members.

DDX33 (S-15) is also recommended for detection of DDX33 in additional species, including equine and canine.

Suitable for use as control antibody for DDX33 siRNA (h): sc-93804, DDX33 siRNA (m): sc-143037, DDX33 shRNA Plasmid (h): sc-93804-SH, DDX33 shRNA Plasmid (m): sc-143037-SH, DDX33 shRNA (h) Lentiviral Particles: sc-93804-V and DDX33 shRNA (m) Lentiviral Particles: sc-143037-V.

Molecular Weight (predicted) of DDX33 isoforms: 79/60 kDa.

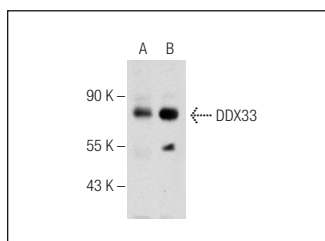
Molecular Weight (observed) of DDX33 isoforms: 81/69 kDa.

Positive Controls: DDX33 (m): 293T Lysate: sc-125247, HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

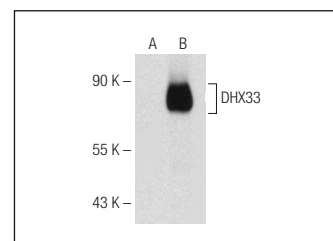
RECOMMENDED SECONDARY REAGENTS

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). 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.

DATA



DDX33 (S-15): sc-137424. Western blot analysis of DDX33 expression in HeLa whole cell lysate (A) and HeLa nuclear extract (B).



DDX33 (S-15): sc-137424. Western blot analysis of DDX33 expression in non-transfected: sc-117752 (A) and mouse DHX33 transfected: sc-125247 (B) 293T whole cell lysates.

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
Satisfaction
Guaranteed

Try **DDX33 (B-4): sc-390573** or **DDX33 (A-3): sc-390574**, our highly recommended monoclonal alternatives to DDX33 (S-15).