SANTA CRUZ BIOTECHNOLOGY, INC.

DDX29 (P-13): sc-107197

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DDX29 (putative ATP-dependent RNA helicase DHX29) is a 1,369 amino acid protein encoded by the human gene DDX29. This protein belongs to the DEAD-box helicase family (DEAH subfamily) and contains one helicase ATP-binding domain and one helicase C-terminal domain. DDX29 is a nuclear protein found on chromosome 5 that likely functions as an ATP-dependent RNA helicase. RNA helicases are highly conserved enzymes that utilize the energy derived from NTP hydrolysis to modulate the structure of RNA. RNA helicases participate in all biological processes that involve RNA, including transcription, splicing and translation.

REFERENCES

1. Dixon, M.J., et al. 1991. The gene for Treacher Collins syndrome maps to the long arm of chromosome 5. Am. J. Hum. Genet. 49: 17-22.
2. Saltman, D.L., et al. 1993. A physical map of 15 loci on human chromosome 5q23-q33 by two-color fluorescence *in situ* hybridization. Genomics 16: 726-732.

CHROMOSOMAL LOCATION

Genetic locus: DHX29 (human) mapping to 5q11.2; Dhx29 (mouse) mapping to 13 D2.2.

SOURCE

DDX29 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DDX29 of human origin.

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-107197 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DDX29 (P-13) is recommended for detection of DDX29 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other DDX family members.

DDX29 (P-13) is also recommended for detection of DDX29 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for DDX29 siRNA (h): sc-91695, DDX29 siRNA (m): sc-142929, DDX29 shRNA Plasmid (h): sc-91695-SH, DDX29 shRNA Plasmid (m): sc-142929-SH, DDX29 shRNA (h) Lentiviral Particles: sc-91695-V and DDX29 shRNA (m) Lentiviral Particles: sc-142929-V.

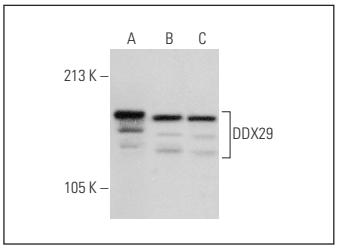
Molecular Weight of DDX29: 155 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, K-562 whole cell lysate: sc-2203 or Hep G2 cell lysate: sc-2227.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



DDX29 (P-13): sc-107197. Western blot analysis of DDX29 expression in HeLa (**A**), K-562 (**B**) and Hep G2 (**C**) whole cell lysates.

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 Satisfaction Guaranteed

Try **DDX29 (F-1): sc-365508** or **DDX29 (2269C1): sc-81080**, our highly recommended monoclonal alternatives to DDX29 (P-13).