

PRP19 (36-K): sc-101236

BACKGROUND

The spliceosome, the gigantic molecular machine that performs pre-mRNA splicing in eukaryotes, contains over 200 different proteins and 5 RNA molecules (U1, U2, U4, U5 and U6). Pre-mRNA splicing is essential to remove internal non-coding regions of pre-mRNA (introns) and to join the remaining segments (exons) into mRNA before translation. The PRP19-associated complex is required for stable association of U5 and U6 with the spliceosome after U4 is released. Changes within the spliceosome upon binding of the PRP19-associated complex include remodeling of the U6/5' splice site interaction and destabilization of Lsm proteins to allow further interaction of U6 with the intron sequence.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PRPF19 (human) mapping to 11q12.2; Prpf19 (mouse) mapping to 19 A.

SOURCE

PRP19 (36-K) is a mouse monoclonal antibody raised against recombinant PRP19 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

PRP19 (36-K) is recommended for detection of PRP19 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PRP19 siRNA (h): sc-61415, PRP19 siRNA (m): sc-61416, PRP19 shRNA Plasmid (h): sc-61415-SH, PRP19 shRNA Plasmid (m): sc-61416-SH, PRP19 shRNA (h) Lentiviral Particles: sc-61415-V and PRP19 shRNA (m) Lentiviral Particles: sc-61416-V.

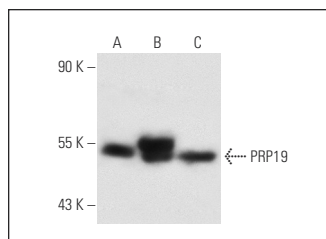
Molecular Weight of PRP19: 54 kDa.

Positive Controls: PRP19 (h2): 293T Lysate: sc-174522, PRP19 (m): 293T Lysate: sc-122796 or HeLa nuclear extract: sc-2120.

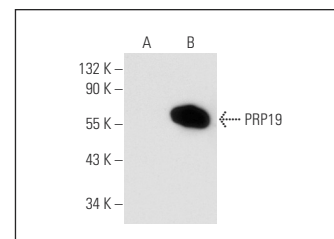
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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



PRP19 (36-K): sc-101236. Western blot analysis of PRP19 expression in non-transfected: sc-117752 (A) and human PRP19 transfected: sc-174522 (B) 293T whole cell lysates and HeLa nuclear extract (C).



PRP19 (36-K): sc-101236. Western blot analysis of PRP19 expression in non-transfected: sc-117752 (A) and mouse PRP19 transfected: sc-122796 (B) 293T 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.

PROTOCOLS

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