

SPNR (Y-13): sc-160839

BACKGROUND

Spermatogenesis is the process by which male spermatogonia develop into mature spermatozoa. The spermatid perinuclear RNA-binding protein (SPNR), also designated STRBP, is a microtubule-associated RNA-binding protein that localizes to the manchette in developing spermatids and plays a role in the regulation of cell growth. SPNR binds to double-stranded DNA and RNA, most efficiently to poly(I:C) RNA than to poly(dI:dC) DNA. It also binds to single-stranded poly(G) RNA and non-specifically to the mRNA PRM1 3'-UTR and adenovirus VA RNA. SPNR is a 672 amino acid protein that contains two DRBM (double-stranded RNA-binding) domains and one DZF domain. Existing as two isoforms, SPNR is expressed at high levels in testis, ovary and brain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: STRBP (human) mapping to 9q33.3; Strbp (mouse) mapping to 2 B.

SOURCE

SPNR (Y-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SPNR 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-160839 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPNR (Y-13) is recommended for detection of SPNR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

SPNR (Y-13) is also recommended for detection of SPNR in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SPNR siRNA (h): sc-92694, SPNR siRNA (m): sc-153774, SPNR shRNA Plasmid (h): sc-92694-SH, SPNR shRNA Plasmid (m): sc-153774-SH, SPNR shRNA (h) Lentiviral Particles: sc-92694-V and SPNR shRNA (m) Lentiviral Particles: sc-153774-V.

Molecular Weight of SPNR: 71 kDa.

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) 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.

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.