Snrp116 (K-15): sc-165511



The Power to Overtin

BACKGROUND

Spliceosomes are multi-protein complexes that are composed of snRNPs (small nuclear ribonucleoproteins) and a variety of associated protein factors, all of which work in concert to regulate the splicing of pre-mRNA. Snrp116, also known as EFTUD2 (elongation factor Tu GTP binding domain containing 2) or Snu114, is a 972 amino acid protein that localizes to the nucleus and belongs to the GTP-binding elongation factor family. Existing as a component of the multi-protein U5 snRNP spliceosome complex, Snrp116 plays an important role in pre-mRNA splicing, as well as in the recycling of spliceosomal snRNPs. The gene encoding Snrp116 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

REFERENCES

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- Jurica, M.S., Licklider, L.J., Gygi, S.R., Grigorieff, N. and Moore, M.J. 2002. Purification and characterization of native spliceosomes suitable for threedimensional structural analysis. RNA 8: 426-439.

CHROMOSOMAL LOCATION

Genetic locus: EFTUD2 (human) mapping to 17q21.31; Eftud2 (mouse) mapping to 11 E1.

SOURCE

Snrp116 (K-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Snrp116 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165511 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Snrp116 (K-15) is recommended for detection of Snrp116 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Snrp116 (K-15) is also recommended for detection of Snrp116 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Snrp116 siRNA (h): sc-94222, Snrp116 siRNA (m): sc-153659, Snrp116 shRNA Plasmid (h): sc-94222-SH, Snrp116 shRNA Plasmid (m): sc-153659-SH, Snrp116 shRNA (h) Lentiviral Particles: sc-94222-V and Snrp116 shRNA (m) Lentiviral Particles: sc-153659-V.

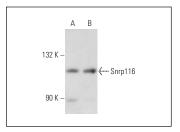
Molecular Weight of Snrp116: 116 kDa.

Postive Controls: MOLT-4 nuclear extract: sc-2151 or Jurkat nuclear extract: sc-2132.

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



Snrp116 (K-15): sc-165511. Western blot analysis of Snrp116 expression in MOLT-4 (**A**) and Jurkat (**B**) nuclear extracts

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 or our catalog for detailed protocols and support products.