

SNRPC (E-10): sc-376552

BACKGROUND

SNRPC (small nuclear ribonucleoprotein polypeptide C) is a 159 amino acid protein that localizes to the nucleus and contains one matrix-type zinc finger. Existing as a monomer, SNRPC associates with U1 snRNP 70 and may play a role in ribonucleoprotein-related events. The gene encoding SNRPC maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

1. Yamamoto, K., et al. 1988. Isolation and characterization of a complementary DNA expressing human U1 small nuclear ribonucleoprotein C polypeptide. *J. Immunol.* 140: 311-317.
2. Sillescu, P.T., et al. 1988. Human U1 snRNP-specific C protein: complete cDNA and protein sequence and identification of a multigene family in mammals. *Nucleic Acids Res.* 16: 8307-8321.
3. Nelissen, R.L., et al. 1997. Cloning and characterization of two processed pseudogenes and the cDNA for the murine U1 snRNP-specific protein C. *Gene* 184: 273-278.
4. Knoop, L.L., et al. 2000. The splicing factor U1C represses EWS/FLI-mediated transactivation. *J. Biol. Chem.* 275: 24865-24871.
5. Du, H., et al. 2002. The U1 snRNP protein U1C recognizes the 5' splice site in the absence of base pairing. *Nature* 419: 86-90.
6. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603522. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Muto, Y., et al. 2004. The structure and biochemical properties of the human spliceosomal protein U1C. *J. Mol. Biol.* 341: 185-198.
8. Hochleitner, E.O., et al. 2005. Protein stoichiometry of a multiprotein complex, the human spliceosomal U1 small nuclear ribonucleoprotein: absolute quantification using isotope-coded tags and mass spectrometry. *J. Biol. Chem.* 280: 2536-2542.

CHROMOSOMAL LOCATION

Genetic locus: SNRPC (human) mapping to 6p21.31; Snrpc (mouse) mapping to 17 A3.3.

SOURCE

SNRPC (E-10) is a mouse monoclonal antibody raised against amino acids 1-70 mapping at the N-terminus of SNRPC of human origin.

PRODUCT

Each vial contains 200 µg IgG₃ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376552 X, 200 µg/0.1 ml.

APPLICATIONS

SNRPC (E-10) is recommended for detection of SNRPC of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

SNRPC (E-10) is also recommended for detection of SNRPC in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SNRPC siRNA (h): sc-95371, SNRPC siRNA (m): sc-153661, SNRPC shRNA Plasmid (h): sc-95371-SH, SNRPC shRNA Plasmid (m): sc-153661-SH, SNRPC shRNA (h) Lentiviral Particles: sc-95371-V and SNRPC shRNA (m) Lentiviral Particles: sc-153661-V.

SNRPC (E-10) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SNRPC: 17 kDa.

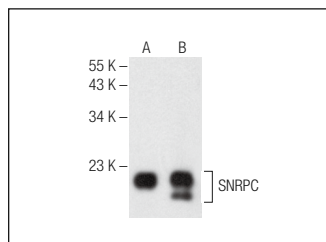
Positive Controls: K-562 nuclear extract: sc-2130, HeLa nuclear extract: sc-2120 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SUPPORT REAGENTS

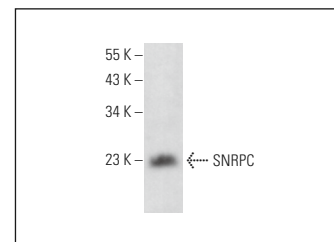
To ensure optimal results, the following support reagents are recommended:

- 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).
- 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



SNRPC (E-10): sc-376552. Western blot analysis of SNRPC expression in HeLa (A) and K-562 (B) nuclear extracts.



SNRPC (E-10): sc-376552. Western blot analysis of SNRPC expression in Hep G2 whole cell lysate. Detection reagent used: m-IgGκ BP-HRP: sc-516102.

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.