10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# SNRPN Antibody

Catalog # ASC11916

## Product Information

| | |
|---|---|
| **Application** | WB, IF, E, IHC-P |
| **Primary Accession** | P63164 |
| **Other Accession** | NP_003088, 4507135 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Calculated MW** | 24614 |
| **Concentration (mg/ml)** | 1 mg/mL |
| **Conjugate** | Unconjugated |
| **Application Notes** | SNRPN antibody can be used for detection of SNRPN by Western blot at 0.5 - 1 □g/mL. Antibody can also be used for immunohistochemistry starting at 5 □g/mL. For immunofluorescence start at 20 □g/mL. |

## Additional Information

| | |
|---|---|
| **Gene ID** | 81781 |
| **Other Names** | Small nuclear ribonucleoprotein-associated protein N, snRNP-N, Sm protein D, Sm-D, Sm protein N, Sm-N, SmN, Snrpn, Smn |
| **Target/Specificity** | SNRPN; SNRPN antibody is human, mouse and rat reactive. |
| **Reconstitution & Storage** | SNRPN antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. |
| **Precautions** | SNRPN Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | Snrpn |
| **Synonyms** | Smn |
| **Function** | May be involved in tissue-specific alternative RNA processing events. |
| **Cellular Location** | Nucleus. |
| **Tissue Location** | Brain specific. |

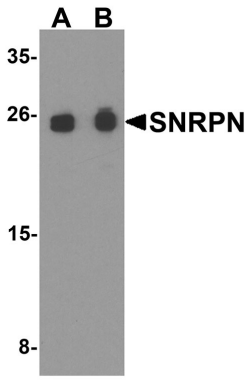
## Background

The small nuclear riboprotein-associated protein N (SNRPN) is one polypeptide of a small nuclear ribonucleoprotein complex and belongs to the snRNP SMB/SMN family. SNRPN plays a role in pre-mRNA processing and alternative splicing (1). SNRPN arises from a bicistronic transcript that also encodes a protein identified as the SNRPN upstream reading frame (SNURF) (2). Mutations or deletions in the SNRPN gene may be linked to responsible for Angelman syndrome or Prader-Willi syndrome (3).

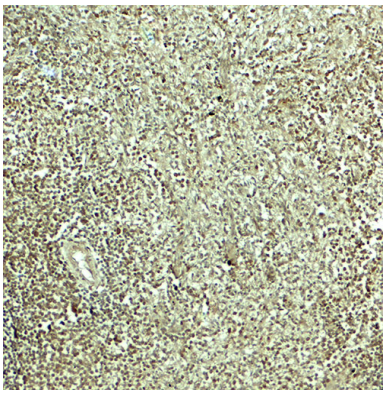
## References


Ozcelik T, Leff S, Robinson W, et al. Small nuclear ribonucleoprotein polypeptide N (SNRPN), an expressed gene in the Prader-Willi syndrome critical region. Nat. Genet. 1992; 2:265-9.
Gray TA, Saitoh S, and Nicholls RD. An imprinted, mammalian bicistronic transcript encodes two independent proteins. Proc. Natl. Acad. Sci. USA 1999; 96:5616-21.
Chen Y, Liu YJ, Pei YF, et al. Copy number variations at the Prader-Willi syndrome region on chromosome 15 and associations with obesity in whites. Obesity 2011; 19:1229-34.

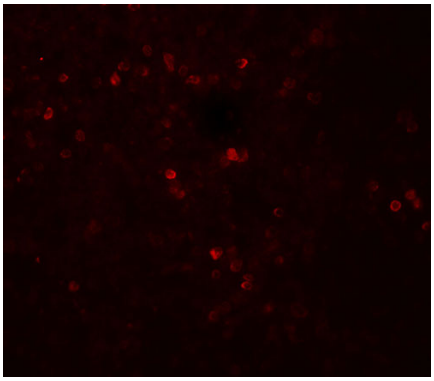

## Images




Western blot analysis of SNRPN in THP-1 cell lysate with SNRPN antibody at (A) 0.5 and (B) 1 µg/ml.



Immunohistochemistry of SNRPN in human spleen tissue with SNRPN antibody at 5 µg/mL.



Immunofluorescence of SNRPN in human spleen tissue with SNRPN antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.