

# pICln (N-20): sc-22127

## BACKGROUND

The formation of the spliceosome includes the assembly of Sm proteins in an ordered manner onto snRNAs. This process is mediated by the survival of motor neuron (SMN) protein, and is enhanced by modification of specific arginine residues in the Sm proteins to symmetrical dimethylarginines (sDMAs). sDMA modification of Sm proteins is catalyzed by the methylome, a complex comprised of the type II methyltransferase PRMT5 (also designated Jak-binding protein 1, JBP1), pICln, and two novel factors. PRMT5 binds the Sm proteins via their arginine- and glycine-rich (RG) domains, while pICln binds the Sm domains. pICln also acts as an inhibitor of SnRNP assembly by preventing specific interactions between Sm proteins required for the formation of the Sm core. pICln is a highly conserved, ubiquitously expressed, 26 kDa protein that localizes primarily to the cytoplasm, and may play a role as a swelling-activated anion channel or a channel regulator in addition to its function in the methylome. The gene encoding human pICln maps to chromosome 11q14.1.

## CHROMOSOMAL LOCATION

Genetic locus: CLNS1A (human) mapping to 11q14.1; Clns1a (mouse) mapping to 7 E2.

## SOURCE

pICln (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of pICln 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-22127 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

pICln (N-20) is recommended for detection of pICln 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)], 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).

pICln (N-20) is also recommended for detection of pICln in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for pICln siRNA (h): sc-42594, pICln siRNA (m): sc-42595, pICln shRNA Plasmid (h): sc-42594-SH, pICln shRNA Plasmid (m): sc-42595-SH, pICln shRNA (h) Lentiviral Particles: sc-42594-V and pICln shRNA (m) Lentiviral Particles: sc-42595-V.

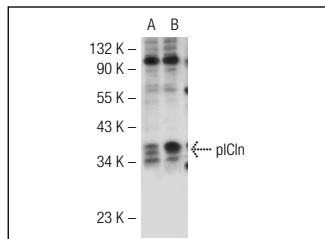
Molecular Weight of pICln: 39 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, pICln (m): 293T Lysate: sc-127333 or HeLa whole cell lysate: sc-2200.

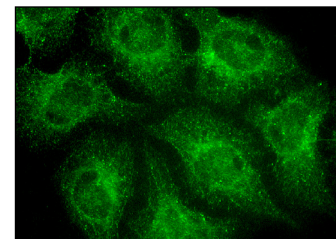
## RECOMMENDED SECONDARY REAGENTS

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



pICln (N-20): sc-22127. Western blot analysis of pICln expression in non-transfected 293T: sc-117752 (A) and mouse pICln transfected 293T: sc-127333 (B) whole cell lysates.



pICln (N-20): sc-22127. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear localization.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



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Try **pICln (G-1): sc-271327** or **pICln (C-5): sc-393525**, our highly recommended monoclonal alternatives to pICln (N-20).