

coilin (L-20): sc-26110

BACKGROUND

Coilin is the primary protein of nuclear coiled (Cajal) bodies. Cajal bodies are small nuclear organelles and contain many proteins involved in RNA transcription and processing. Coilin is a self-associating protein with a nucleolar localization signal. Coilin is essential for the proper formation of Cajal bodies and for the recruitment of snRNP and survival motor neuron (SMN) complex proteins to Cajal bodies. Coilin directly binds SMN proteins in the recruitment process and competes with SmB' for SMN interactions. In the developing organism, Cajal bodies play a role in the assembly of the nucleolus. While the N-terminus of coilin contains the self-associating domain, the C-terminus of coilin regulates the number of Cajal bodies present in the cell.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: COIL (human) mapping to 17q22; Coil (mouse) mapping to 11 C.

SOURCE

coilin (L-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of coilin 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-26110 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

coilin (L-20) is recommended for detection of coilin 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).

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

Suitable for use as control antibody for coilin siRNA (h): sc-37570, coilin siRNA (m): sc-37571, coilin shRNA Plasmid (h): sc-37570-SH, coilin shRNA Plasmid (m): sc-37571-SH, coilin shRNA (h) Lentiviral Particles: sc-37570-V and coilin shRNA (m) Lentiviral Particles: sc-37571-V.

Molecular Weight of coilin: 80 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, MOLT-4 nuclear extract: sc-2151 or K-562 whole cell lysate: sc-2203.

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.



Try **coilin (F-7): sc-55594** or **coilin (Pdelta): sc-56298**, our highly recommended monoclonal alternatives to coilin (L-20).