

# INTS10 (N-13): sc-87169

## BACKGROUND

RNA polymerase II (Pol II) is an enzyme that is composed of 12 subunits and is responsible for the transcription of protein-coding genes. Transcription initiation requires Pol II-mediated recruitment of transcription machinery to a target promoter, thereby allowing transcription to begin. The integrator complex is a multi-protein complex that associates with the C-terminal domain of Pol II and is involved in small nuclear RNA (snRNA) transcription and 3'-end processing. INTS10 (integrator complex subunit 10) is also known as INT10 and is a 710 amino acid protein that is localized to the nucleus. INTS10 is a component of the integrator complex and, as such, is thought to aid in the regulation of 3'-end processing of spliceosomal U1 and U2 snRNAs.

## REFERENCES

1. Uguen, P., et al. 2003. The 3' ends of human pre-snRNAs are produced by RNA polymerase II CTD-dependent RNA processing. *EMBO J.* 22: 4544-4554.
2. Jacobs, E.Y., et al. 2004. Role of the C-terminal domain of RNA polymerase II in U2 snRNA transcription and 3' processing. *Mol. Cell. Biol.* 24: 846-855.
3. Baillat, D., et al. 2005. Integrator, a multiprotein mediator of small nuclear RNA processing, associates with the C-terminal repeat of RNA polymerase II. *Cell* 123: 265-276.
4. Sobennikova, M.V., et al. 2007. C-terminal domain (CTD) of the subunit Rpb1 of nuclear RNA polymerase II and its role in the transcription cycle. *Mol. Biol.* 41: 433-449.
5. Egloff, S., et al. 2007. Serine-7 of the RNA polymerase II CTD is specifically required for snRNA gene expression. *Science* 318: 1777-1779.
6. Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 611353. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
7. Egloff, S., et al. 2008. Expression of human snRNA genes from beginning to end. *Biochem. Soc. Trans.* 36: 590-594.

## CHROMOSOMAL LOCATION

Genetic locus: INTS10 (human) mapping to 8p21.3; Ints10 (mouse) mapping to 8 B3.3.

## SOURCE

INTS10 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of INTS10 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-87169 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

INTS10 (N-13) is recommended for detection of INTS10 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).

INTS10 (N-13) is also recommended for detection of INTS10 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for INTS10 siRNA (h): sc-77859, INTS10 siRNA (m): sc-146250, INTS10 shRNA Plasmid (h): sc-77859-SH, INTS10 shRNA Plasmid (m): sc-146250-SH, INTS10 shRNA (h) Lentiviral Particles: sc-77859-V and INTS10 shRNA (m) Lentiviral Particles: sc-146250-V.

Molecular Weight of INTS10: 82 kDa.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## 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.