

# INTS2 (N-13): sc-164688

## 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. INTS2 (integrator complex subunit 2) is a 1,204 amino acid single-pass membrane protein and is a subunit of the Integrator complex, which associates with the C-terminal domain of the RNA polymerase II large subunit and mediates 3' end processing of small nuclear RNAs U1 and U2.

## REFERENCES

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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. Egloff, S., et al. 2007. Serine-7 of the RNA polymerase II CTD is specifically required for snRNA gene expression. *Science* 318: 1777-1779.
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6. Richard, D.J., et al. 2008. Single-stranded DNA-binding protein hSSB1 is critical for genomic stability. *Nature* 453: 677-681.
7. Li, Y., et al. 2009. HSSB1 and hSSB2 form similar multiprotein complexes that participate in DNA damage response. *J. Biol. Chem.* 284: 23525-23531.
8. Skaar, J.R., et al. 2009. INTS3 controls the hSSB1-mediated DNA damage response. *J. Cell Biol.* 187: 25-32.
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## CHROMOSOMAL LOCATION

Genetic locus: INTS2 (human) mapping to 17q23.2; Ints2 (mouse) mapping to 11 C.

## SOURCE

INTS2 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of INTS2 of human origin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## 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-164688 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

INTS2 (N-13) is recommended for detection of INTS2 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); non cross-reactive with other INTS family members.

INTS2 (N-13) is also recommended for detection of INTS2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for INTS2 siRNA (h): sc-93707, INTS2 siRNA (m): sc-146252, INTS2 shRNA Plasmid (h): sc-93707-SH, INTS2 shRNA Plasmid (m): sc-146252-SH, INTS2 shRNA (h) Lentiviral Particles: sc-93707-V and INTS2 shRNA (m) Lentiviral Particles: sc-146252-V.

Molecular Weight of INTS2: 134 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™ 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.