

INTS8 (D-19): sc-87777

BACKGROUND

RNA polymerase II (Pol II) is an enzyme that is composed of twelve 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. INTS8 (integrator complex subunit 8) is also known as INT8 or Kaonashi-1 (Kaonashi protein 1) and is a 995 amino acid protein that is expressed as 2 isoforms. INTS8 is a component of the integrator complex and is localized to the nucleus which is typical of proteins that contain TPR (tetratricopeptide repeat) repeats. INTS8 contains 4 TPR repeats, each of which is a 34 amino acid motif and has a helix-turn-helix shape which can bind proteins in a variety of functions, one of which is transcriptional regulation. Because INTS8 has TPR repeats, it may be involved in transcriptional regulation events concerning the integrator complex.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: INTS8 (human) mapping to 8q22.1; Ints8 (mouse) mapping to 4 A1.

SOURCE

INTS8 (D-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of INTS8 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-87777 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

INTS8 (D-19) is recommended for detection of INTS8 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 INTS9 or INTS10.

INTS8 (D-19) is also recommended for detection of INTS8 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for INTS8 siRNA (h): sc-77658, INTS8 siRNA (m): sc-146256, INTS8 shRNA Plasmid (h): sc-77658-SH, INTS8 shRNA Plasmid (m): sc-146256-SH, INTS8 shRNA (h) Lentiviral Particles: sc-77658-V and INTS8 shRNA (m) Lentiviral Particles: sc-146256-V.

Molecular Weight of INTS8: 113 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.

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.