

RPAP1 (D-14): sc-163316

BACKGROUND

RNA polymerases transcribe nuclear genes for ribosomal RNA and are integral components of ribosomal biogenesis. RNA polymerase I (Pol I) is located in the nucleolus and transcribes class I genes, which code for large ribosomal RNA. RNA polymerase II (Pol II) synthesizes mRNA. RNA polymerase III (Pol III) transcribes class III genes, encoding a number of small ribosomal RNA molecules including tRNA and 5S rRNA. RPAP1 (RNA polymerase II associated protein 1) is a 1,393 amino acid nuclear protein that is thought to connect Pol II to acetylated Histone H3 and regulators of protein complex formation. A member of the RPAP1 family, RPAP1 exists as three alternatively spliced isoforms that are encoded by a gene that maps to human chromosome 15q15.1.

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CHROMOSOMAL LOCATION

Genetic locus: RPAP1 (human) mapping to 15q15.1; Rpap1 (mouse) mapping to 2 E5.

SOURCE

RPAP1 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RPAP1 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-163316 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RPAP1 (D-14) is recommended for detection of RPAP1 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 RPAP2 or RPAP3.

RPAP1 (D-14) is also recommended for detection of RPAP1 in additional species, including equine and bovine.

Suitable for use as control antibody for RPAP1 siRNA (h): sc-89912, RPAP1 siRNA (m): sc-153097, RPAP1 shRNA Plasmid (h): sc-89912-SH, RPAP1 shRNA Plasmid (m): sc-153097-SH, RPAP1 shRNA (h) Lentiviral Particles: sc-89912-V and RPAP1 shRNA (m) Lentiviral Particles: sc-153097-V.

Molecular Weight of RPAP1 isoforms: 153/144/85 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.