



PHF5A (Q-12): sc-82994

BACKGROUND

PHF5A (PHD finger protein 5A), also known as SF3b14b or INI, is a 110 amino acid protein that contains one PHD finger-like domain and localizes to the nucleus. One of several members of the PHD finger superfamily, PHF5A functions as a subunit of the SF3A splicing factor complex, a heterotrimeric complex comprised of multiple subunits that act in tandem to mediate the binding of U2 snRNP to the branchpoint sequence (BPS) in pre-mRNA. The SF3A complex is necessary for the conversion of 15S U2 snRNP into the active 17S protein that performs directly in pre-mRNA splicing events. In conjunction with other members of the SF3A complex, PHF5A plays an important role in mediating pre-mRNA splicing and transcription. The gene encoding PHF5A maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome.

REFERENCES

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3. Zhou, Z., Licklider, L.J., Gygi, S.P. and Reed, R. 2002. Comprehensive proteomic analysis of the human spliceosome. *Nature* 419: 182-185.
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CHROMOSOMAL LOCATION

Genetic locus: PHF5A (human) mapping to 22q13.2; Phf5a (mouse) mapping to 15 E1.

SOURCE

PHF5A (Q-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of PHF5A of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-82994 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82994 X, 200 µg/0.1 ml.

APPLICATIONS

PHF5A (Q-12) is recommended for detection of PHF5A 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 PHF family members.

Suitable for use as control antibody for PHF5A siRNA (h): sc-76119, PHF5A siRNA (m): sc-76120, PHF5A shRNA Plasmid (h): sc-76119-SH, PHF5A shRNA Plasmid (m): sc-76120-SH, PHF5A shRNA (h) Lentiviral Particles: sc-76119-V and PHF5A shRNA (m) Lentiviral Particles: sc-76120-V.

PHF5A (Q-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of PHF5A: 12 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ 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 or our catalog for detailed protocols and support products.