

U11/U12 snRNP 65K (P-14): sc-165847

BACKGROUND

U11/U12 snRNP 65K, also known as RBM40 (RNA-binding protein 40), RNPC3 (RNA-binding region-containing protein 3) or RNP, is a 517 amino acid nuclear protein that plays a role in pre-mRNA U12-dependent splicing by the minor spliceosome, ultimately leading to the removal of U12-type introns. Expressed at highest levels in kidney and pancreas, U11/U12 snRNP 65K is also weakly detected in placenta, heart, brain, lung, liver, thymus, colon, ovary, testis, prostate, spleen and small intestine. The gene encoding U11/U12 snRNP 65K maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

REFERENCES

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5. Will, C.L., et al. 2004. The human 18S U11/U12 snRNP contains a set of novel proteins not found in the U2-dependent spliceosome. *RNA* 10: 929-941.
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CHROMOSOMAL LOCATION

Genetic locus: RNPC3 (human) mapping to 1p21.1; Rnpc3 (mouse) mapping to 3 F3.

SOURCE

U11/U12 snRNP 65K (P-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of U11/U12 snRNP 65K 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-165847 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

U11/U12 snRNP 65K (P-14) is recommended for detection of U11/U12 snRNP 65K of human origin and RNPC3 of mouse 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).

Suitable for use as control antibody for U11/U12 snRNP 65 siRNA (h): sc-88143, RNPC3 siRNA (m): sc-153057, U11/U12 snRNP 65 shRNA Plasmid (h): sc-88143-SH, RNPC3 shRNA Plasmid (m): sc-153057-SH, U11/U12 snRNP 65 shRNA (h) Lentiviral Particles: sc-88143-V and RNPC3 shRNA (m) Lentiviral Particles: sc-153057-V.

Molecular Weight of U11/U12 snRNP 65K: 59 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.



Try **U11/U12 snRNP 65K (H-5): sc-514951**, our highly recommended monoclonal alternative to U11/U12 snRNP 65K (P-14).