

Rpp21 (T-13): sc-169218

BACKGROUND

Ribonuclease P (RNase P) and Ribonuclease MRP (RNase MRP) are small nuclear ribonucleoproteins (snRNPs) that act on RNA substrates *in vitro*. RNase P and RNase MRP, which accumulate in the nucleolus, have a similar RNA component and also have several protein subunits in common. RNase P, which consists of a complex of an RNA species, POP1, POP5, and at least 7 Rpps, removes the 5-prime leader sequences from precursor tRNA molecules. Rpp21 (ribonuclease P/MRP 21kDa subunit), also known as CAT60 or ribonucleoprotein V, is a 154 amino acid nuclear protein that functions as a component of RNase P. Existing as three alternatively spliced isoforms, Rpp21 is encoded by a gene that maps to human chromosome 6p22.1 and mouse chromosome 17 B1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RPP21 (human) mapping to 6p22.1; Rpp21 (mouse) mapping to 17 B1.

SOURCE

Rpp21 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Rpp21 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 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-169218 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Rpp21 (T-13) is recommended for detection of Rpp21 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 Rpp family members.

Rpp21 (T-13) is also recommended for detection of Rpp21 in additional species, including canine.

Suitable for use as control antibody for Rpp21 siRNA (h): sc-95356, Rpp21 siRNA (m): sc-153111, Rpp21 shRNA Plasmid (h): sc-95356-SH, Rpp21 shRNA Plasmid (m): sc-153111-SH, Rpp21 shRNA (h) Lentiviral Particles: sc-95356-V and Rpp21 shRNA (m) Lentiviral Particles: sc-153111-V.

Molecular Weight of Rpp21 isoforms: 18/20/17 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.

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.