PRPF18 (C-20): sc-243875



The Power to Question

BACKGROUND

PRPF18 (pre-mRNA-splicing factor 18), also known as HPRP18, is a 342 amino acid protein that localizes to nuclear speckles and plays a role in the second step of pre-mRNA splicing. A member of the PRP18 family, PRPF18 contains seven WD repeats and exists as two alternatively spliced isoforms which are encoded by a gene located on human chromosome 10p13. Chromosome 10 contains over 800 genes and 135 million nucleotides. PTEN is an important tumor suppressor gene located on chromosome 10 and, when defective, causes a genetic predisposition to cancer development known as Cowden syndrome. Other chromosome 10 associated disorders include Cockayne syndrome, tetrahydrobiopterin deficiency and trisomy 10.

REFERENCES

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- Teresi, R.E., et al. 2007. Cowden syndrome-affected patients with PTEN promoter mutations demonstrate abnormal protein translation. Am. J. Hum. Genet. 81: 756-767.
- Yin, Y. and Shen, W.H. 2008. PTEN: a new guardian of the genome. Oncogene 27: 5443-5453.
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CHROMOSOMAL LOCATION

Genetic locus: PRPF18 (human) mapping to 10p13; Prpf18 (mouse) mapping to 2 A1.

SOURCE

PRPF18 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PRPF18 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243875 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

PRPF18 (C-20) is recommended for detection of PRPF18 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 PRPF family members.

PRPF18 (C-20) is also recommended for detection of PRPF18 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PRPF18 siRNA (h): sc-90497, PRPF18 siRNA (m): sc-152492, PRPF18 shRNA Plasmid (h): sc-90497-SH, PRPF18 shRNA Plasmid (m): sc-152492-SH, PRPF18 shRNA (h) Lentiviral Particles: sc-90497-V and PRPF18 shRNA (m) Lentiviral Particles: sc-152492-V.

Molecular Weight of PRPF18: 42 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) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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