

PRAP1 (G-13): sc-138538

BACKGROUND

PRAP1 (proline-rich acidic protein 1), also known as UPA (uterine-specific proline-rich acidic protein), is a 151 amino acid secreted protein that contains two putative casein kinase II phosphorylation sites and exists as four alternatively spliced isoforms. Human PRAP1 shares approximately 50% homology with both rat and mouse orthologues and contains a 20 amino acid signal peptide that is more than 70% conserved between human and rodent. Abundantly expressed in epithelial cells of liver, kidney, gastrointestinal tract and cervix, PRAP1 may play an important role in maintaining normal growth homeostasis in epithelial cells. PRAP1 is significantly downregulated in hepatocellular carcinoma and right colon adenocarcinoma, compared to adjacent normal tissues, and conversely upregulated by butyrate, Trichostatin A and 5'-Aza-2'-deoxycytidine. The gene that encodes PRAP1 maps to human chromosome 10q26.3.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: PRAP1 (human) mapping to 10q26.3.

SOURCE

PRAP1 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PRAP1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138538 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PRAP1 (G-13) is recommended for detection of PRAP1 of 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).

Suitable for use as control antibody for PRAP1 siRNA (h): sc-90366, PRAP1 shRNA Plasmid (h): sc-90366-SH and PRAP1 shRNA (h) Lentiviral Particles: sc-90366-V.

Molecular Weight of PRAP1 isoforms 1/2/3/4: 17/10/17/16 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.