

PPAN (N-18): sc-162031

BACKGROUND

PPAN (peter pan homolog), also known as Ssf-1 (suppressor of SWI4 1 homolog) or brix domain-containing protein 3, is a 473 amino acid protein that contains one Brix domain and exists as 2 alternatively spliced isoforms. Containing 12 exons, PPAN contains 2 characteristic CpG islands upstream of exon 1 and exon 6, with both islands having TATA elements nearby, which suggests that PPAN possesses 2 potential promoter regions. Encoded by a gene that maps to human chromosome 19p13.2, PPAN localizes to nucleus and is ubiquitously expressed, with highest levels in heart, skeletal muscle, kidney and liver. PPAN functions as a putative tumor suppressor in HF cells, nontransformed revertants of HeLa cells. Upregulated expression of PPAN in myeloid leukemia cells occurs in response to granulocyte-colony stimulating factor and dibutyryl-cAMP. PPAN may also play a role in cell growth.

REFERENCES

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- Suarez-Huerta, N., et al. 2000. Cloning, genomic organization, and tissue distribution of human Ssf-1. *Biochem. Biophys. Res. Commun.* 275: 37-42.
- Welch, P.J., et al. 2000. Identification and validation of a gene involved in anchorage-independent cell growth control using a library of randomized hairpin ribozymes. *Genomics* 66: 274-283.
- Becker, S., et al. 2001. The black-pearl gene of *Drosophila* defines a novel conserved protein family and is required for larval growth and survival. *Gene* 262: 15-22.
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- Eisenhaber, F., et al. 2001. The Brix domain protein family—a key to the ribosomal biogenesis pathway? *Trends Biochem. Sci.* 26: 345-347.
- Devader, C., et al. 2007. A novel nucleotide receptor in *Xenopus* activates the cAMP second messenger pathway. *FEBS Lett.* 581: 5332-5336.

CHROMOSOMAL LOCATION

Genetic locus: PPAN/PPAN-P2RY11 (human) mapping to 19p13.2.

SOURCE

PPAN (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PPAN 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-162031 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

PPAN (N-18) is recommended for detection of PPAN and PPAN-P2RY11 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

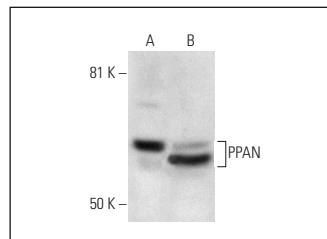
Molecular Weight of PPAN isoforms: 53/52 kDa.

Positive Controls: U266 whole cell lysate: sc-364800, U-251-MG whole cell lysate: sc-364176 or AN3 CA cell lysate: sc-24662.

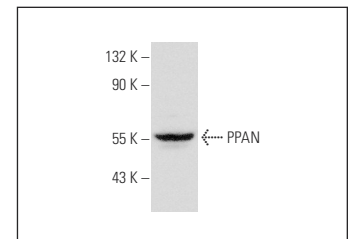
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



PPAN (N-18): sc-162031. Western blot analysis of PPAN expression in U266 (A) and AN3 CA (B) whole cell lysates.



PPAN (N-18): sc-162031. Western blot analysis of PPAN expression in U-251-MG whole cell lysate.

STORAGE

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

PROTOCOLS

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


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Try **PPAN (C-7): sc-398273**, our highly recommended monoclonal alternative to PPAN (N-18).