## SANTA CRUZ BIOTECHNOLOGY, INC.

# PPAN (D-17): sc-162028



The Power to Question

#### 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 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

- Migeon, J.C., et al. 1999. Cloning and characterization of peter pan, a novel *Drosophila* gene required for larval growth. Mol. Biol. Cell 10: 1733-1744.
- 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.
- 4. 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.
- 5. Communi, D., et al. 2001. Cotranscription and intergenic splicing of human P2Y11 and SSF1 genes. J. Biol. Chem. 276: 16561-16566.
- 6. Eisenhaber, F., et al. 2001. The Brix domain protein family—a key to the ribosomal biogenesis pathway? Trends Biochem. Sci. 26: 345-347.
- 7. 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; Ppan (mouse) mapping to 9 A3.

#### SOURCE

PPAN (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PPAN of human origin.

#### **STORAGE**

Store at 4° C, \*\*D0 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.

#### PRODUCT

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162028 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

PPAN (D-17) is recommended for detection of PPAN and PPAN-P2RY11 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).

PPAN (D-17) is also recommended for detection of PPAN and PPAN-P2RY11 in additional species, including canine, bovine and porcine.

Molecular Weight of PPAN isoforms: 53/52 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) Immunofluo-rescence: 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.