



## PWP1 (A-14): sc-107981

### BACKGROUND

PWP1 (periodic tryptophan protein 1), also known as IEF SSP 9502 or endonuclein, is a 501 amino acid protein that is the human homolog of the *Saccharomyces cerevisiae* periodic Trp protein. Localized to the nucleus and expressed highly in the kidneys, pancreas, placenta and skeletal muscle, PWP1 is thought to play an important role in transcription and cell growth. In yeast, PWP1 is a histone tail-associated protein that interacts with chromatin through the H4 tail. PWP1 contains five WD-repeats and may participate in the development of pancreatic cancer. It is implicated in regulating chaperone activities in the ER and signal transduction pathways in the nucleus.

### REFERENCES

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2. Honoré, B., Leffers, H., Madsen, P. and Celis, J.E. 1995. Cloning of a cDNA encoding a novel human nuclear phosphoprotein belonging to the WD-40 family. *Gene* 151: 291-296.
3. Honoré, B., Baandrup, U., Nielsen, S. and Vorum, H. 2002. Endonuclein is a cell cycle regulated WD-repeat protein that is upregulated in adenocarcinoma of the pancreas. *Oncogene* 21: 1123-1129.
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### CHROMOSOMAL LOCATION

Genetic locus: PWP1 (human) mapping to 12q23.3; Pwp1 (mouse) mapping to 10 C1.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

### SOURCE

PWP1 (A-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PWP1 of human origin.

### PRODUCT

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

Blocking peptide available for competition studies, sc-107981 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

PWP1 (A-14) is recommended for detection of PWP1 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 PWP family members.

Suitable for use as control antibody for PWP1 siRNA (h): sc-95942, PWP1 siRNA (m): sc-152597, PWP1 shRNA Plasmid (h): sc-95942-SH, PWP1 shRNA Plasmid (m): sc-152597-SH, PWP1 shRNA (h) Lentiviral Particles: sc-95942-V and PWP1 shRNA (m) Lentiviral Particles: sc-152597-V.

Molecular Weight of PWP1: 79 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.