



PAWP (E-18): sc-86780

BACKGROUND

PAWP (postacrosomal sheath WW domain-binding protein), also known as WW domain-binding protein 2-like, is a 309 amino acid protein that resides in the postacrosomal sheath of the sperm perinuclear theca. During fertilization, PAWP may play a significant role in meiotic resumption and pronuclear formation. The N-terminus of PAWP shares significant sequence similarity with WW domain-binding protein 2 and the C-terminus is proline-rich, suggesting that this region may serve to bind other proteins. PAWP contains a Gram domain, which is found in a variety of proteins that are associated with signal transduction and membrane-coupled processes. Introduction of recombinant PAWP into metaphase II-arrested oocytes induces a high rate of pronuclear formation, an event which appears to be dependent on the PPXY motif of sperm-contributed PAWP.

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: WBP2NL (human) mapping to 22q13.2.

SOURCE

PAWP (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PAWP 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-86780 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PAWP (E-18) is recommended for detection of PAWP 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 PAWP siRNA (h): sc-76073, PAWP shRNA Plasmid (h): sc-76073-SH and PAWP shRNA (h) Lentiviral Particles: sc-76073-V.

Molecular Weight of PAWP: 32 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.