SANTA CRUZ BIOTECHNOLOGY, INC.

PAWP (N-14): sc-86781

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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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6. Wu, A.T., Sutovsky, P., Xu, W., van der Spoel, A.C., Platt, F.M. and Oko, R. 2007. The postacrosomal assembly of sperm head protein, PAWP, is independent of acrosome formation and dependent on microtubular manchette transport. Dev. Biol. 312: 471-483.
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8. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 610981. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

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 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at 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-86781 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PAWP (N-14) is recommended for detection of PAWP 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).

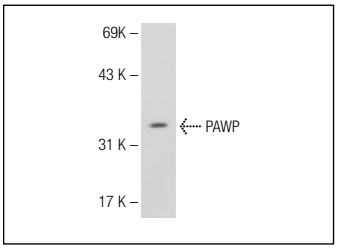
PAWP (N-14) is also recommended for detection of PAWP in additional species, including bovine and porcine.

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.

Positive Controls: OV-90 whole cell lysate.

DATA



PAWP (N-14): sc-86781. Western blot analysis of PAWP expression in OV-90 whole cell lysate.

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.