

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PAWR in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PAWR Arg2-Ala121 Accession # CAD88640
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

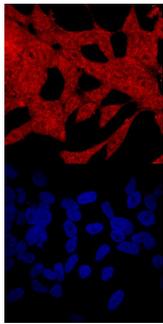
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	5-15 µg/mL	See Below

DATA

Immunocytochemistry



PAWR in LNCaP Human Cell Line. PAWR was detected in immersion fixed LNCaP human prostate cancer cell line using Sheep Anti-Human PAWR Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6885) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PAWR (PRKC Apoptosis WT1 Regulator protein; also PAR-4) is an intracellular, 38-42 kDa pro-apoptotic protein. It is widely expressed, and serves multiple functions. WT1 protein is both a transcriptional activator and repressor. When complexed to PAWR, WT1 activation function is repressed, while its repressor activity is enhanced. Thus, PAWR generates transcriptional repression. PAWR also binds to the atypical λ PKC and ζ PKC isoforms. Such binding inhibits PKC activity, blocks cell division and MAPK activation, and promotes Fas-mediated cell apoptosis. Finally, in neurons, PAWR binds to BACE1, promoting the cleavage of APP. Human PAWR is 340 amino acids (aa) in length. It contains an Ala-rich region (aa 49-120), an NLS (aa 145-161), one coiled-coil region (aa 186-206), and a Leu-zipper domain (aa 300-340). There are at least five utilized Ser/Thr phosphorylation sites. PAWR forms noncovalent homodimers and is reported to homooligomerize. There is one potential splice form that shows a three aa substitution for aa 173-340, and a P-P-A-R substitution for A102P103. Full-length PAWR shares 78% aa identity with mouse PAWR.