Human PAWR Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6885

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PAWR in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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 as a 0.2 μm filtered solution in PBS.

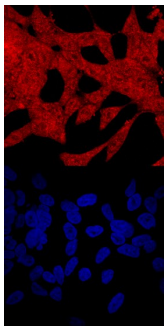
APPLICATIONS

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.** ● 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 λPKC and ζPKC isotypes. Such binding inhibits PKC avtivity, 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.

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