

Rabbit anti-Human PAWR Polyclonal Antibody | anti-PAWR antibody

Anti-PAWR Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127191	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

PAWR; Polyclonal Antibody; Anti-PAWR Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-PAWR antibody

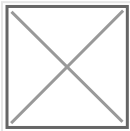
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PAWR antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human PAWR recombinant protein (Position: R160-D255). Human PAWR shares 82.3% and 81.2% amino acid (aa) sequence identity with mouse and rat PAWR, respectively.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Caco-2 cells using anti-PAWR antibody (AAA127191).Overlay histogram showing Caco-2 cells stained with AAA127191 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PAWR Antibody (AAA127191, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PAWR using anti-PAWR antibody (AAA127191).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human SW620 whole cell lysates,Lane 2: human SiHa whole cell lysates,Lane 3: human RT4 whole cell lysates,Lane 4: human Caco-2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PAWR antigen affinity purified polyclonal antibody (#AAA127191) at 0.25ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PAWR at approximately 41 kDa. The expected band size for PAWR is at 37 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of PAWR using anti-PAWR antibody (AAA127191).PAWR was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PAWR Antibody (AAA127191) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-PAWR antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PAWR antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Donninger, H., Hesson, L., Vos, M., Beebe, K., Gordon, L., Sidransky, D., Liu, J. W., Schlegel, T., Payne, S., Hartmann, A., Latif, F., Clark, G. J. The Ras effector RASSF2 controls the PAR-4 tumor suppressor. Molec. Cell. Biol. 30: 2608-2620, 2010. 2. Duan, W., Zhang, Z., Gash, D. M., Mattson, M. P. Participation of prostate apoptosis response-4 in degeneration of dopaminergic neurons in models of Parkinson's disease. Ann. Neurol. 46: 587-597, 1999. 3. Johnstone, R. W., See, R. H., Sells, S. F., Wang, J., Muthukkumar, S., Englert, C., Haber, D. A., Licht, J. D., Sugrue, S. P., Roberts, T., Rangnekar, V. M., Shi, Y. A novel repressor, par-4, modulates transcription and growth suppression functions of the Wilms' tumor suppressor WT1. Molec. Cell. Biol. 16: 6945-6956, 1996.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55769533
NCBI GeneID	5074
NCBI Accession #	NP_002574.2
NCBI GenBank Nucleotide #	NM_002583.2
UniProt Accession #	Q96IZ0; O75796; Q6FHY9; Q8N700
Molecular Weight	36,568 Da

NCBI Official Full Name	PRKC apoptosis WT1 regulator protein
NCBI Official Synonym Full Names	PRKC, apoptosis, WT1, regulator
NCBI Official Symbol	PAWR
NCBI Official Synonym Symbols	PAR4; Par-4
NCBI Protein Information	PRKC apoptosis WT1 regulator protein; WT1-interacting protein; prostate apoptosis response-4; transcriptional repressor PAR4; prostate apoptosis response 4 protein; prostate apoptosis response protein 4; prostate apoptosis response protein PAR-4
UniProt Protein Name	PRKC apoptosis WT1 regulator protein
UniProt Gene Name	PAWR
UniProt Synonym Gene Names	PAR4; Par-4
UniProt Entry Name	PAWR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pawr-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127191>