

Rabbit Prostate Apoptosis Response protein 4 Polyclonal Antibody | anti-PAWR antibody

Prostate Apoptosis Response protein 4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322022	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Prostate Apoptosis Response protein 4; Polyclonal Antibody; Prostate Apoptosis Response protein 4 Antibody; 2310001G03Rik; PAR 4; PAR-4; Pawr; PAWR_HUMAN; PRKC Apoptosis WT1 Regulator; PRKC apoptosis WT1 regulator protein; Prostate apoptosis response 4 protein; Prostate apoptosis response protein 4; prostate apoptosis response protein PAR-4; Transcriptional repressor Par-4-like protein PAWR; Transcriptional repressor PAR4; WT1 Interacting Protein; anti-PAWR antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Prostate Apoptosis Response protein 4 antibody detects endogenous levels of total Prostate Apoptosis Response protein 4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	340
Applicable Applications for anti-PAWR antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Prostate Apoptosis Response protein 4
Subcellular Location	Cytoplasm. Nucleus. Mainly cytoplasmic in absence of apoptosis signal and in normal cells. Nuclear in most cancer cell lines. Nuclear entry seems to be essential but not sufficient for apoptosis (By similarity). Nuclear localization includes nucleoplasm and PML nuclear bodies.
Tissue Specificity	Widely expressed. Expression is elevated in various neurodegenerative diseases such as amyotrophic lateral sclerosis, Alzheimer, Parkinson and Huntington diseases and stroke. Down-regulated in several cancers.
Predicted Cross Reactivity	Pig, Zebrafish, Rabbit, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Rabbit (88%), Chicken (100%), Xenopus (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA322022 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Prostate Apoptosis Response protein 4 expression in NIH/3T3 cells



IF (Immunofluorescence)

AAA322022 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PAWR antibody

Description: Pro-apoptotic protein capable of selectively inducing apoptosis in cancer cells, sensitizing the cells to diverse apoptotic stimuli and causing regression of tumors in animal models. Induces apoptosis in certain cancer cells by activation of the Fas prodeath pathway and coparallel inhibition of NF-kappa-B transcriptional activity.

Function: Pro-apoptotic protein capable of selectively inducing apoptosis in cancer cells, sensitizing the cells to diverse apoptotic stimuli and causing regression of tumors in animal models. Induces apoptosis in certain cancer cells by activation of the Fas prodeath pathway and coparallel inhibition of NF-kappa-B transcriptional activity. Inhibits the transcriptional activation and augments the transcriptional repression mediated by WT1. Down-regulates the anti-apoptotic protein BCL2 via its interaction with WT1. Seems also to be a transcriptional repressor by itself. May be directly involved in regulating the amyloid precursor protein (APP) cleavage activity of BACE1.

Subunit Structure: Homooligomer. Interacts (via the C-terminal region) with WT1 (PubMed:8943350). Interacts with THAP1 (PubMed:12717420). Interacts with AATF (PubMed:14627703). Interacts with BACE1 (PubMed:15671026). Interacts with SPSB1 (via B30.2/SPRY domain); this interaction is direct and occurs in association with the Elongin BC complex (PubMed:17189197, PubMed:20561531). Interacts with SPSB2 (via B30.2/SPRY domain); this interaction occurs in association with the Elongin BC complex (PubMed:17189197, PubMed:20561531). Interacts with SPSB4 (via B30.2/SPRY domain) (PubMed:20561531); this interaction occurs in association with the Elongin BC complex (PubMed:20561531). Component of a ternary complex composed of SQSTM1 and PRKCZ (PubMed:11755531). Interacts with actin (By similarity).

Post-translational Modifications: Preferentially phosphorylated at the Thr-163 by PKC in cancer cells.

Similarity: The leucine-zipper domain is not essential for apoptosis, but is required for sensitization of cells to exogenous apoptotic insults and for interaction with its partners. The SAC domain is a death-inducing domain selective for apoptosis induction in cancer cells. This domain is essential for nuclear entry, Fas activation, inhibition of NF-kappa-B activity and induction of apoptosis in cancer cells (By similarity). The B30.2/SPRY domain-binding motif mediates recognition by proteins containing a B30.2/SPRY domain.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55769533
NCBI GeneID	5074
NCBI Accession #	NP_002574.2
NCBI GenBank Nucleotide #	NM_002583.3
UniProt Accession #	Q96IZ0; O75796; Q6FHY9; Q8N700
Molecular Weight	Observed: 37 kDa Predicted: 37 kDa

NCBI Official Full Name	PRKC apoptosis WT1 regulator protein isoform 1
NCBI Official Synonym Full Names	pro-apoptotic WT1 regulator
NCBI Official Symbol	PAWR
NCBI Official Synonym Symbols	PAR4; Par-4
NCBI Protein Information	PRKC apoptosis WT1 regulator protein
UniProt Protein Name	PRKC apoptosis WT1 regulator protein
UniProt Gene Name	PAWR
UniProt Synonym Gene Names	PAR4; Par-4

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/prostate-apoptosis-response-protein-4-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322022>