

Rabbit PKN1 Polyclonal Antibody | anti-PKN1 antibody

PKN1 Antibody

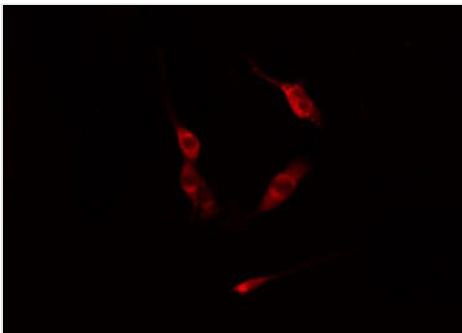
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325412	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PKN1; Polyclonal Antibody; PKN1 Antibody; DBK; PAK 1; PAK-1; PAK1; PKC1; PKN ALPHA; PKN; Pkn1; PKN1_HUMAN; PRK1; PRKCL1; Protease activated kinase 1; Protease-activated kinase 1; Protein kinase C like 1; Protein kinase C like PKN; Protein kinase C related kinase 1; Protein kinase C-like 1; Protein kinase C-like PKN; Protein kinase N1; Protein kinase PKN alpha; Protein kinase PKN-alpha; Protein-kinase C-related kinase 1; Serine threonine kinase N; Serine threonine protein kinase N; Serine-threonine protein kinase N; Serine/threonine protein kinase N1; Serine/threonine-protein kinase N1; anti-PKN1 antibody

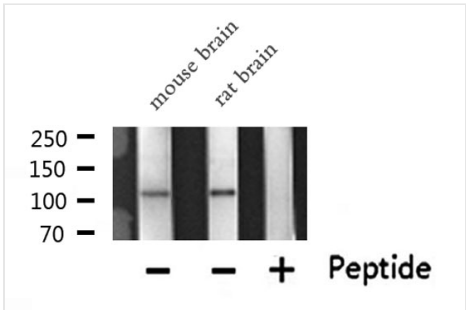
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PKN1 antibody detects endogenous levels of total PKN1
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	942
Applicable Applications for anti-PKN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus. Endosome. Cell Membrane. Cleavage Furrow. Midbody. Associates with chromatin in a ligand-dependent manner. Localization to endosomes is mediated via its interaction with RHOB. Association to the cell membrane is dependent on Ser-374 phosphorylation. Accumulates during telophase at the cleavage furrow and finally concentrates around the midbody in cytokinesis.
Tissue Specificity	Found ubiquitously. Expressed in heart, brain, placenta, lung, skeletal muscle, kidney and pancreas. Expressed in numerous tumor cell lines, especially in breast tumor cells.
Predicted Cross Reactivity	Pig, Bovine, Dog
Similarity	Pig (100%), Bovine (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



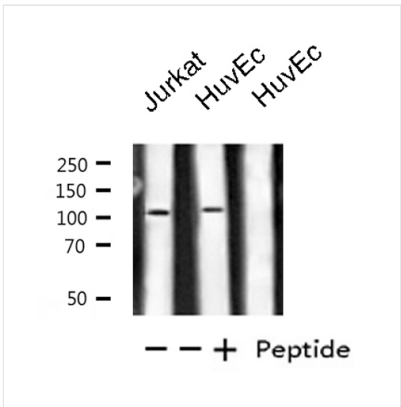
IF (Immunofluorescence)

AAA325412 staining Hela cells 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) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of PKN1/PRK1 expression in various lysates



WB (Western Blot)

Western blot analysis of extracts from Jurkat/HuvEc cells, using PKN1/PRK1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PKN1 antibody

Function: PKC-related serine/threonine-protein kinase involved in various processes such as regulation of the intermediate filaments of the actin cytoskeleton, cell migration, tumor cell invasion and transcription regulation. Part of a signaling cascade that begins with the activation of the adrenergic receptor ADRA1B and leads to the activation of MAPK14. Regulates the cytoskeletal network by phosphorylating proteins such as VIM and neurofilament proteins NEFH, NEFL and NEFM, leading to inhibit their polymerization. Phosphorylates 'Ser-575', 'Ser-637' and 'Ser-669' of MAPT/Tau, lowering its ability to bind to microtubules, resulting in disruption of tubulin assembly. Acts as a key coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and specifically mediating phosphorylation of 'Thr-11' of histone H3 (H3T11ph), a specific tag for epigenetic transcriptional activation that promotes demethylation of histone H3 'Lys-9' (H3K9me) by KDM4C/JMJD2C. Phosphorylates HDAC5, HDAC7 and HDAC9, leading to impair their import in the nucleus. Phosphorylates 'Thr-38' of PPP1R14A, 'Ser-159', 'Ser-163' and 'Ser-170' of MARCKS, and GFAP. Able to phosphorylate RPS6 in vitro. Subunit Structure: Interacts with ZFAND6 (By similarity). Interacts with ANDR (PubMed:12514133). Interacts with PRKCB (PubMed:20228790). Interacts (via REM 1 and REM 2 repeats) with RAC1 (PubMed:14514689, PubMed:18006505). Interacts (via REM 1 repeat) with RHOA (PubMed:10619026, PubMed:8571126). Interacts with RHOB (PubMed:9478917). Interacts (via C-terminus) with PDPK1 (PubMed:10792047). Interacts with CCNT2; enhances MYOD1-dependent transcription (PubMed:16331689). Component of a signaling complex containing at least AKAP13, PKN1, MAPK14, ZAK and MAP2K3. Within this complex, AKAP13 interacts directly with PKN1, which in turn recruits MAPK14, MAP2K3 and ZAK (PubMed:21224381). Post-translational Modifications: Autophosphorylated; preferably on serine. Phosphorylated during mitosis. Activated by limited proteolysis with trypsin. (Microbial infection) In case of infection, polyubiquitinated by the bacterial E3 ubiquitin-protein ligase SspH1, leading to its proteasomal degradation. Similarity: The C1 domain does not bind the diacylglycerol (DAG). Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47132589
NCBI GeneID	5585
NCBI Accession #	NP_002732.3
NCBI GenBank Nucleotide #	NM_002741.4
UniProt Accession #	Q16512; Q15143; Q504U4; Q8IUV5; Q9UD44; A8K7W5; B2R9R4; B3KVN3
Molecular Weight	Observed: 103 kD Predicted: 104 kDa
NCBI Official Full Name	serine/threonine-protein kinase N1 isoform 2
NCBI Official Synonym Full Names	protein kinase N1
NCBI Official Symbol	PKN1
NCBI Official Synonym Symbols	DBK; PKN; PAK1; PRK1; PAK-1; PRKCL1; PKN-ALPHA
NCBI Protein Information	serine/threonine-protein kinase N1
UniProt Protein Name	Serine/threonine-protein kinase N1
UniProt Gene Name	PKN1
UniProt Synonym Gene Names	PAK1; PKN; PRK1; PRKCL1; PAK-1

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/pkn1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325412>