

Rabbit PKN2 Polyclonal Antibody | anti-PKN2 antibody

Phospho-PKN2 (Ser815) Antibody

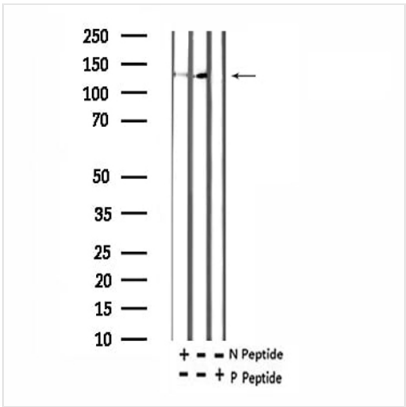
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31159	Rabbit	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

PKN2; Polyclonal Antibody; Phospho-PKN2 (Ser815) Antibody; Cardiolipin activated protein kinase Pak2; MGC150606; MGC71074; PAK 2; PAK2; PKN gamma; PKN2_HUMAN; PRK2; PRKCL2; PRO2042; Protein kinase C like 2; Protein kinase C related kinase 2; Protein kinase C-like 2; Protein kinase N2; Protein-kinase C-related kinase 2; Serine/threonine-protein kinase N2; anti-PKN2 antibody

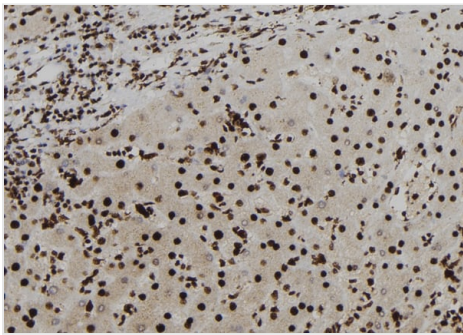
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-PKN2 (Ser815) Antibody detects endogenous levels of PKN2 only when phosphorylated at Ser815.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
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	984
Applicable Applications for anti-PKN2 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:200 ELISA (Peptide): 1:20000-1:40000
Immunogen	A synthesized peptide derived from human PKN2 around the phosphorylation site of Ser815.
Tissue Specificity	Ubiquitous. Expressed in numerous tumor cell lines, especially in bladder tumor cells.
Conjugate	Unconjugated
Subcellular Location	Nucleus; Cytoskeleton
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



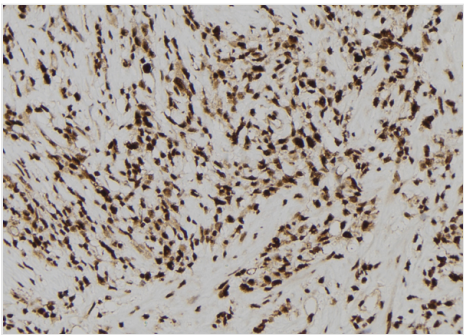
WB (Western Blot)

Western blot analysis of Phospho-PKN2 (Ser815) in lysates of HeLa , using Phospho-PAK2 (Ser815) Antibody.



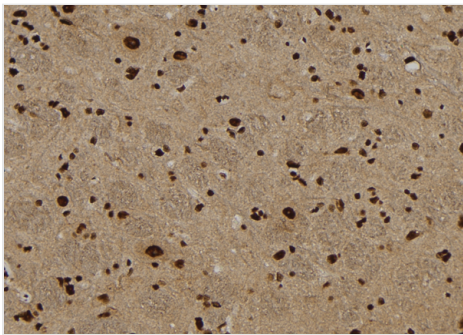
IHC (Immunohistochemistry)

At 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



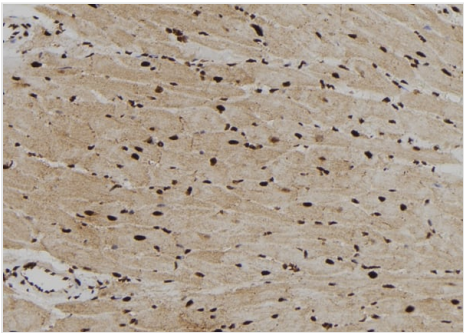
IHC (Immunohistochemistry)

At 1/100 staining human gastric cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



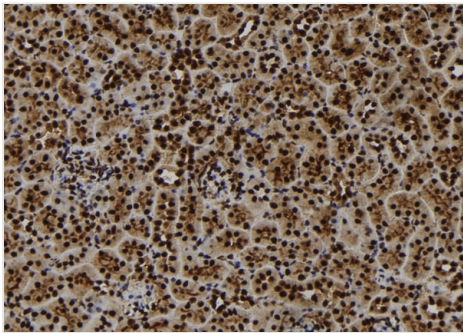
IHC (Immunohistochemistry)

At 1/100 staining rat brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



IHC (Immunohistochemistry)

At 1/100 staining rat heart tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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



IHC (Immunohistochemistry)

At 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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

ADDITIONAL INFORMATION

Related Product Information for anti-PKN2 antibody	Description: PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. Plays a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion, tumor cell invasion and transcription activation signaling processes. Phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin. Phosphorylates HDAC5, therefore lead to impair HDAC5 import. Direct RhoA target required for the regulation of the maturation of primordial junctions into apical junction formation in bronchial epithelial cells. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Stimulates FYN kinase activity that is required for establishment of skin cell-cell adhesion during keratinocytes differentiation. Regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion. Inhibits Akt pro-survival-induced kinase activity. Mediates Rho protein-induced transcriptional activation via the c-fos serum response factor (SRF). Phosphorylates HCV NS5B leading to stimulation of HCV RNA replication. Involved in the negative regulation of ciliogenesis (PubMed:27104747). Post Translational Modifications: Autophosphorylated. Phosphorylated during mitosis. Phosphorylated by CDK10 (PubMed:27104747). Activated by limited proteolysis with trypsin (By similarity). Proteolytically cleaved by caspase-3 during the induction of apoptotic cell death. Subunit Structure: Interacts (via the REM repeats) with RHOA (GTP-bound form preferentially) and interacts (via the REM repeats) with RAC1 (GTP-bound form preferentially); the interactions induce its autophosphorylation (PubMed:9121475, PubMed:20974804). Interacts with RHOC (PubMed:20974804). Interacts with NCK1 and NCK2 (PubMed:10026169). Interacts with NCK1 (via SH3 domains) (By similarity). Interacts with CD44 (By similarity). Interacts (via C-terminal kinase domain) with PDPK1; the interaction stimulates PDPK1 kinase activity (PubMed:10226025, PubMed:10792047, PubMed:11781095, PubMed:18835241). Interacts with MAP3K2; the interaction activates PRK2 kinase activity in a MAP3K2-independent kinase activity (PubMed:10818102). Interacts (via C-terminal domain) with AKT1; the interaction occurs with the C-terminal cleavage product of PRK2 in apoptotic cells (PubMed:10926925). Interacts (via C-terminus) with PTPN13 (via PDZ 3 domain) (PubMed:11356191). Interacts with HCV NS5B (via N-terminal finger domain) (PubMed:15364941). Interacts with CDK10 (PubMed:27104747). Similarity: The N-terminal regioninterferes with the interaction between AKT1 and the C-terminal regionof PKN2. The C1 domain does not bind the diacylglycerol (DAG). The apoptotic C-terminal cleavage product inhibits EGF-induced kinase activity of AKT1 phosphorylation at 'Thr-308' and 'Ser-473' sites, PDPK1 autophosphorylation and kinases PRKCD and PRKCZ phosphorylations. Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6225859
NCBI GeneID	5586
UniProt Accession #	Q16513
Molecular Weight	Observed: 140 kDa Predicted: 113 kDa
NCBI Official Full Name	Serine/threonine-protein kinase N2
NCBI Official Synonym Full Names	protein kinase N2
NCBI Official Symbol	PKN2
NCBI Official Synonym Symbols	PAK2; PRK2; STK7; Pak-2; PRKCL2; PRO2042
NCBI Protein Information	serine/threonine-protein kinase N2
UniProt Protein Name	Serine/threonine-protein kinase N2
UniProt Gene Name	PKN2
UniProt Synonym Gene Names	PRK2; PRKCL2
UniProt Entry Name	PKN2_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/pkn2-antibody-western-blot-immunohistochemistry-peptide-elisa-elisa/31159>