



Rabbit Anti-PKN2 antibody

SL0875R

Product Name:	PKN2
Chinese Name:	蛋白激酶N2抗体
Alias:	protein kinase N2; Serine/threonine-protein kinase N2; Protein kinase C-like 2; Protease-activated kinase 2; PAK-2; Cardiolipin activated protein kinase Pak2; MGC150606; MGC71074; PAK2; PRK2; PRKCL2; PRO2042; Protein kinase C like 2; Protein kinase C related kinase 2; Pak-2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	112kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PKN2:881-984/984
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Protein-kinase-C-related kinases (PRKs) are part of the lipid-regulated protein kinases (PKC) which also include liver PAK & PKN. Human PRK1 and PRK2 share structurally similar catalytic domains, but less similar N-terminal regulatory regions suggesting different regulatory domain functions. PRK1 and PRK2, as well as a third

member of this family, PRK3, show distinct patterns of expression in adult tissues. Additionally, the serine-threonine kinase PRK2 can be specifically cleaved by caspase-3 (and/or caspase-3-like subfamily members) during apoptosis

Function:

Involved in chromatin organization.

Subunit:

Found in a mRNA splicing-dependent exon junction complex (EJC) with DEK, RBM8A, RNPS1, SRRM1 and ALYREF/THOC4. Interacts with histones H2A, H2B, H3, H4, acetylated histone H4, non-phosphorylated DAXX and HDAC2. Component of the B-WICH complex, at least composed of SMARCA5/SNF2H, BAZ1B/WSTF, SF3B1, DEK, MYO1C, ERCC6, MYBBP1A and DDX21. Binds DNA.

Subcellular Location:

Nucleus. Note=Enriched in regions where chromatin is decondensed or sparse in the interphase nuclei.

Tissue Specificity:

Ubiquitous. Expressed at relatively high levels.

Post-translational modifications:

Phosphorylated by CK2. Phosphorylation fluctuates during the cell cycle with a moderate peak during G(1) phase, and weakens the binding of DEK to DNA.

DISEASE:

Note=A chromosomal aberration involving DEK is found in a subset of acute myeloid leukemia (AML); also known as acute non-lymphocytic leukemia. Translocation t(6;9)(p23;q34) with NUP214/CAN. It results in the formation of a DEK-CAN fusion gene.

Similarity:

Contains 1 SAP domain.

SWISS:

Q16513

Gene ID:

5586

Database links:

[Entrez Gene: 5586](#)Human

[Entrez Gene: 109333](#)Mouse

[Entrez Gene: 207122](#)Rat

[Omid: 602549](#)Human

[SwissProt: Q16513](#)Human

[SwissProt: Q8BWW9](#)Mouse

[SwissProt: O08874](#)Rat

[Unigene: 440833](#)Human

[Unigene: 244236](#)Mouse

[Unigene: 30325](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Kinases and Phosphatases

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