## **Product Name: PDK1 Rabbit Polyclonal Antibody**

Catalog #: APRab15917



## **Summary**

Production Name PDK1 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

**Host** Rabbit

**Application** IF-P,IF-F,ICC/IF,WB,IHC-P,ELISA

**Reactivity** Human, Mouse, Rat

## **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

### **Immunogen**

Gene Name PDPK1

Alternative Names PDPK1; PDK1; 3-phosphoinositide-dependent protein kinase 1; hPDK1

**Gene ID** 5170.0

O15530.The antiserum was produced against synthesized peptide derived from human **SwissProt ID** 

PDK1. AA range:210-259

# **Application**

IF-P/IF-F/ICC/IF 1:50-200, WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:10000.Not yet

**Dilution Ratio** 

tested in other applications.

Molecular Weight 60kDa

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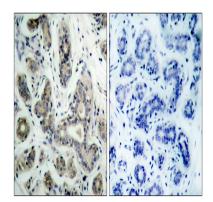
## **Background**

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Phosphorylates and activates not only PKB/AKT, but also PKA, PKC-zeta, RPS6KA1 and RPS6KB1. May play a general role in signaling processes and in development (By similarity). Isoform 3 is catalytically inactive., PTM: Phosphorylated on tyrosine and serine/threonine. Phosphorylation on Ser-241 in the activation loop is required for full activity. PDK1 itself can autophosphorylate Ser-241, leading to its own activation, similarity: Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. PDK1 subfamily., similarity: Contains 1 PH domain., similarity: Contains 1 protein kinase domain, subcellular location: Membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane, subunit: Interacts with TUSC4, tissue specificity: Appears to be expressed ubiquitously,,catalytic activity:ATP + a protein = ADP + a phosphoprotein, function:Phosphorylates and activates not only PKB/AKT, but also PKA, PKC-zeta, RPS6KA1 and RPS6KB1. May play a general role in signaling processes and in development (By similarity). Isoform 3 is catalytically inactive.,PTM:Phosphorylated on tyrosine and serine/threonine. Phosphorylation on Ser-241 in the activation loop is required for full activity. PDK1 itself can autophosphorylate Ser-241, leading to its own activation, similarity: Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PDK1 subfamily., similarity: Contains 1 PH domain., similarity: Contains 1 protein kinase domain, subcellular location: Membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane, subunit: Interacts with TUSC4., tissue specificity: Appears to be expressed ubiquitously.,

#### **Research Area**

PPAR;mTOR;Focal adhesion;Insulin\_Receptor;Aldosterone-regulated sodium reabsorption;Endometrial cancer;Prostate cancer;Non-small cell lung cancer;

## **Image Data**

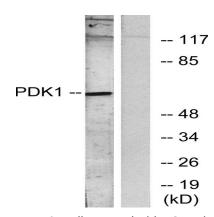


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PDK1 Antibody. The picture on the right is blocked with the synthesized peptide.

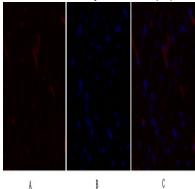
Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

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**C** EnkiLife



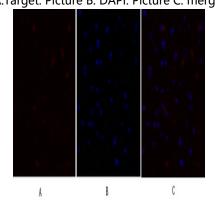
Western blot analysis of lysates from MDA-MB-435 cells, treated with EGF, using PDK1 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunofluorescence analysis of rat-heart tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) .

2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



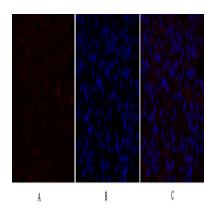
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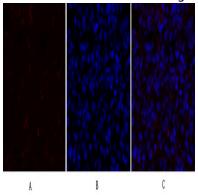
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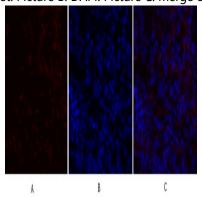
**C** EnkiLife



Immunofluorescence analysis of rat-lung tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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Immunofluorescence analysis of rat-spleen tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight).

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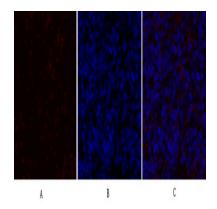
Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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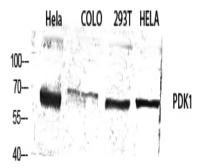




Immunofluorescence analysis of rat-spleen tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight).

2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min.

Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



Western Blot analysis of various cells using PDK1 Polyclonal Antibody diluted at 1: 1000

#### Note

For research use only.