Catalog #: APRab15917



Summary

Production Name PDK1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IF,WB,IHC,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

cycles.

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

Purification Affinity purification

Immunogen

Storage

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 1:50-200 WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000. Not yet tested in other

Dilution Ratio

applications.

Molecular Weight 60kD

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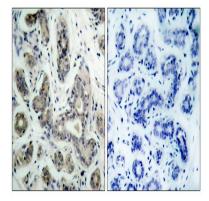
Background

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

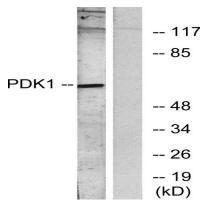


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PDK1 Antibody. The picture on the right is blocked with the synthesized peptide.

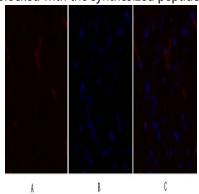
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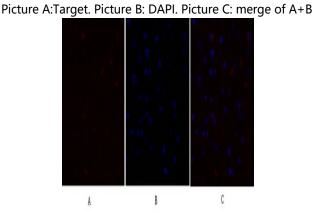
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Western blot analysis of lysates from MDA-MB-435 cells, treated with EGF, using PDK1 Antibody. The lane on the right is blocked with the synthesized peptide.



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.



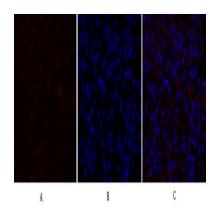
Immunofluorescence analysis of rat-heart tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) .

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

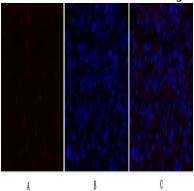
Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

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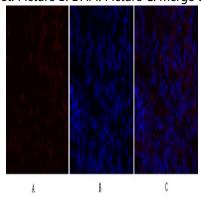
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Immunofluorescence analysis of rat-lung tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target.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



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



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

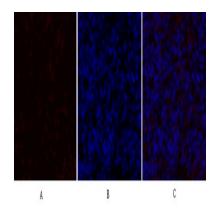
2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min.

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

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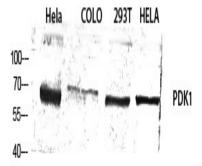




Immunofluorescence analysis of rat-spleen tissue. 1,PDK1 Polyclonal Antibody (red) was diluted at 1:200 (4°C,overnight).

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.