

PDPK1 Polyclonal Antibody | anti-PDPK1 antibody

Anti-PDPK1 Antibody

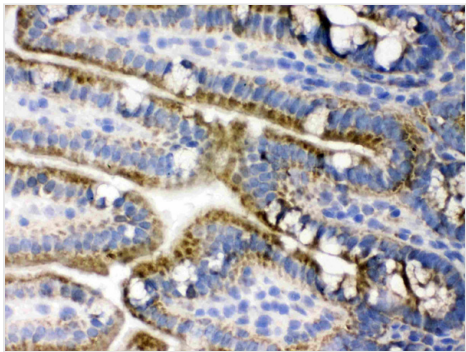
CATALOG #	REACTIVITY	APPLICATIONS
AAA11643	Human, Mouse, Rat	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

PDPK1; Polyclonal Antibody; Anti-PDPK1 Antibody; 3-phosphoinositide-dependent protein kinase 1; 3 phosphoinositide dependent protein kinase 1; hPDK 1; hPDK1; MGC20087; MGC35290; OTTHUMP00000159109; OTTHUMP00000159110; OTTHUMP00000174525; PDK1; Pdpk1; PDPK1_HUMAN; PDPK2; PkB kinase; PkB kinase like gene 1; PkB like 1; PRO0461; Protein kinase; 3-phosphoinositide dependent protein kinase 1; anti-PDPK1 antibody

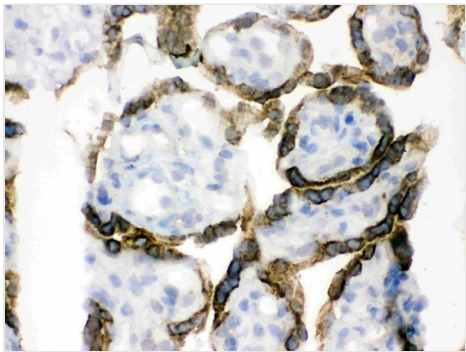
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Sequence Length	454
Applicable Applications for anti-PDPK1 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Application Notes	Western Blot Concentration: 0.1-0.5ug/ml Immunohistochemistry (IHC) Paraffin Concentration: 0.5-1ug/ml
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PDPK1 (524-556aa YLMDPSGNAHKWCRKIQEVWRQRYQSHPDAAVQ), different from the related mouse and rat sequences by two amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



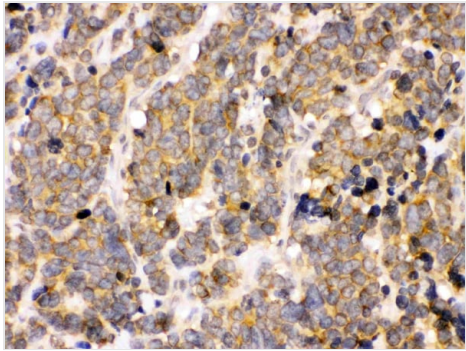
IHC (Immunohistochemistry)

Figure 6. IHC analysis of PDPK1 using anti-PDPK1 antibody (AAA11643).PDPK1 was detected in frozen section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDPK1 Antibody (AAA11643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



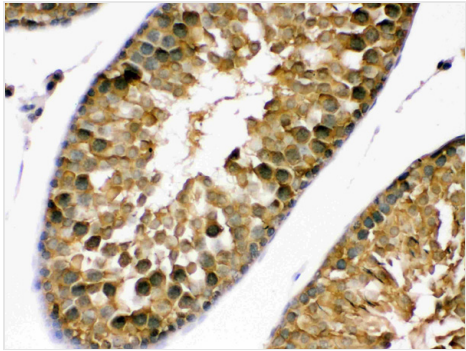
IHC (Immunohistochemistry)

Figure 5. IHC analysis of PDPK1 using anti-PDPK1 antibody (AAA11643).PDPK1 was detected in frozen section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDPK1 Antibody (AAA11643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



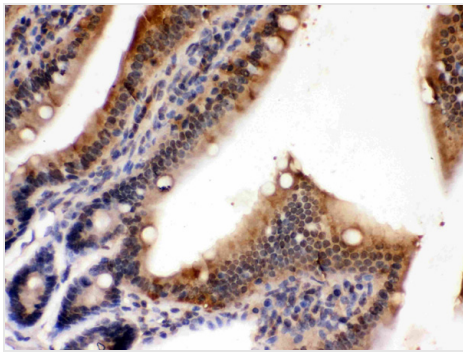
IHC (Immunohistochemistry)

Figure 4. IHC analysis of PDPK1 using anti-PDPK1 antibody (AAA11643).PDPK1 was detected in paraffin-embedded section of Human Lung Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDPK1 Antibody (AAA11643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



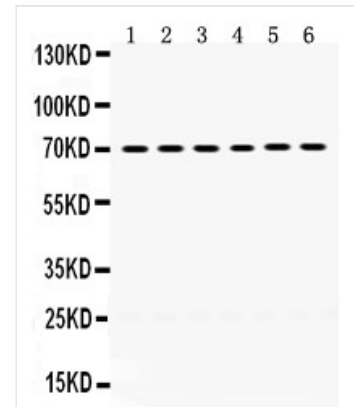
IHC (Immunohistochemistry)

Figure 3. IHC analysis of PDPK1 using anti-PDPK1 antibody (AAA11643).PDPK1 was detected in paraffin-embedded section of Rat Testis Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDPK1 Antibody (AAA11643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PDPK1 using anti-PDPK1 antibody (AAA11643). PDPK1 was detected in paraffin-embedded section of Mouse Intestine Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDPK1 Antibody (AAA11643) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PDPK1 using anti-PDPK1 antibody (AAA11643). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat Liver Tissue Lysate, Lane 2: Rat Lung Tissue Lysate, Lane 3: Mouse Liver Tissue Lysate, Lane 4: Mouse Lung Tissue Lysate, Lane 5: COLO320 Whole Cell Lysate, Lane 6: MCF-7 Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PDPK1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PDPK1 at approximately 70KD. The expected band size for PDPK1 is at 63KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PDPK1 antibody	Description: Rabbit IgG polyclonal antibody for 3-phosphoinositide-dependent protein kinase 1(PDPK1) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: 3-phosphoinositide dependent protein kinase-1, also known as PDPK1, is a protein which in humans is encoded by the PDPK1 gene. It is mapped to 16p13.3. PDPK1 is a master kinase, which is crucial for the activation of AKT/PKB and many other AGC kinases including PKC, S6K, SGK. An important role for PDPK1 is in the signalling pathways activated by several growth factors and hormones including insulin signaling. Mice lacking PDPK1 die during early embryonic development, indicating that this enzyme is critical for transmitting the growth-promoting signals necessary for normal mammalian development.
References	1. "Entrez Gene: PDPK1". 2. Mora A, Komander D, van Aalten DM, Alessi DR (April 2004). "PDK1, the master regulator of AGC kinase signal transduction". <i>Semin. Cell Dev. Biol.</i> 15 (2): 161-70. 3. Scortegagna M, Ruller C, Feng Y, Lazova R, Kluger H, Li JL, De SK, Rickert R, Pellecchia M, Bosenberg M, Ronai ZA (2014). "Genetic inactivation or pharmacological inhibition of Pdk1 delays development and inhibits metastasis of Braf(V600E)::Pten(-/-) melanoma". <i>Oncogene</i> 33(34): 4330-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	387849239
NCBI GeneID	5170
NCBI Accession #	NP_001248745.1
NCBI GenBank Nucleotide #	NM_001261816.1
UniProt Accession #	O15530; Q59EH6; Q6FI20; Q8IV52; Q9BRD5; H0Y4Z0; Q6A1A2
Molecular Weight	50,838 Da
NCBI Official Full Name	3-phosphoinositide-dependent protein kinase 1 isoform 3
NCBI Official Synonym Full Names	3-phosphoinositide dependent protein kinase 1

NCBI Official Symbol	PDPK1
NCBI Official Synonym Symbols	PDK1; PDPK2; PDPK2P; PRO0461
NCBI Protein Information	3-phosphoinositide-dependent protein kinase 1
UniProt Protein Name	3-phosphoinositide-dependent protein kinase 1
UniProt Gene Name	PDPK1
UniProt Synonym Gene Names	PDK1; hPDK1
UniProt Entry Name	PDPK1_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/pdpk1-antibody-western-blot-immunohistochemistry-elisa/11643>