

Rabbit anti-Human, mouse PDK4 Polyclonal Antibody | anti-PDK4 antibody

PDK4 Antibody (C-term)

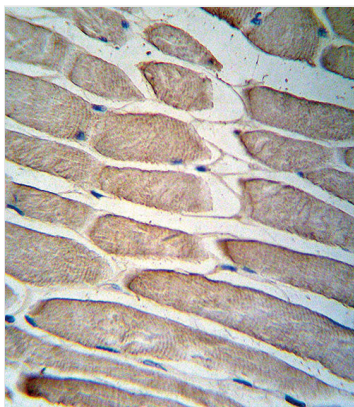
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290247	Rabbit	Human, mouse	Immunohistochemistry, Western Blot, ELISA, Immunofluorescence

PRODUCT SYNONYMS

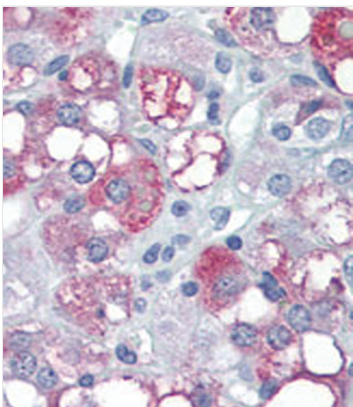
PDK4; Polyclonal Antibody; PDK4 Antibody (C-term); [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4; mitochondrial; Pyruvate dehydrogenase kinase isoform 4; PDHK4; anti-PDK4 antibody

PRODUCT SPECIFICATIONS

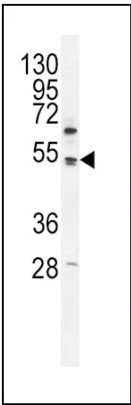
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PDK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 382-410 amino acids from the C-terminal region of human PDK4.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	382-410
Sequence Length	411
Applicable Applications for anti-PDK4 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



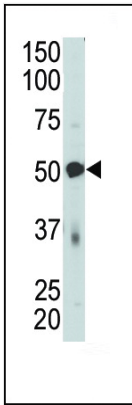
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PDK4 Antibody (C-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



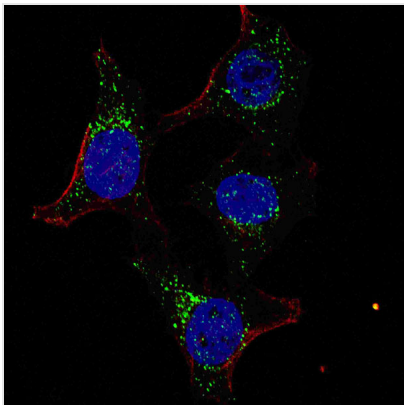
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human Adrenal tissue reacted with PDK4 Antibody (C-term) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
PDK4 Antibody (C396) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the PDK4 antibody detected the PDK4 protein (arrow).



WB (Western Blot)
The PDK4 Antibody (C-term) is used in Western blot to detect PDK4 in mouse skeletal muscle tissue lysate.



IF (Immunofluorescence)
Fluorescent confocal image of HeLa cells stained with PDK4 (C-term) antibody. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA290247 PDK4 (C-term) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the PDK4 mainly to the cytoplasm.

ADDITIONAL INFORMATION

Related Product Information for anti-PDK4 antibody	PDK4 inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
Product Categories/Family for anti-PDK4 antibody	Metabolism ; Signal Transduction
References	References for protein: 1. Rosa, G., et al., <i>Obes. Res.</i> 11(2):176-182 (2003). 2. Razeghi, P., et al., <i>Cardiology</i> 97(4):203-209 (2002). 3. Rowles, J., et al., <i>J. Biol. Chem.</i> 271(37):22376-22382 (1996). 4. Gudi, R., et al., <i>J. Biol. Chem.</i> 270(48):28989-28994 (1995). References for HeLa cell line: 1. Scherer WF, Syverton JT, Gey GO (May 1953). "Studies on the propagation in vitro of poliomyelitis viruses. IV. Viral multiplication in a stable strain of human malignant epithelial cells (strain HeLa) derived from an epidermoid carcinoma of the cervix". <i>J. Exp. Med.</i> 97 (5): 695-710. [PubMed:13052828]. 2. Macville M, Schröck E, Padilla-Nash H, Keck C, Ghadimi BM, Zimonjic D, Popescu N, Ried T (January 1999). "Comprehensive and definitive molecular cytogenetic characterization of HeLa cells by spectral karyotyping". <i>Cancer Res.</i> 59 (1): 141-50. [PubMed: 9892199]. 3. Rahbari R, Sheahan T, Modes V, Collier P, Macfarlane C, Badge RM (April 2009). "A novel L1 retrotransposon marker for HeLa cell line identification". <i>BioTechniques</i> 46 (4): 277-84. [PubMed: 19450234]. 4. Capes-Davis A, Theodosopoulos G, Atkin I, Drexler HG, Kohara A, MacLeod RA, Masters JR, Nakamura Y, Reid YA, Reddel RR, Freshney RI (July 2010). "Check your cultures! A list of cross-contaminated or misidentified cell lines". <i>Int. J. Cancer</i> 127 (1): 1-8. [PubMed:20143388].

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505693
NCBI GeneID	5166
NCBI Accession #	NP_002603.1
NCBI GenBank Nucleotide #	NM_002612.3
UniProt Accession #	Q16654
Molecular Weight	46469
NCBI Official Full Name	pyruvate dehydrogenase kinase, isozyme 4
NCBI Official Synonym Full Names	pyruvate dehydrogenase kinase, isozyme 4
NCBI Official Symbol	PDK4
NCBI Protein Information	pyruvate dehydrogenase kinase, isozyme 4
UniProt Protein Name	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial
UniProt Gene Name	PDK4
UniProt Synonym Gene Names	PDHK4
UniProt Entry Name	PDK4_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/pdk4-antibody-immunohistochemistry-western-blot-immunofluorescence-elisa/290247>