

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

PDK4 Antibody

CATALOG # AAA231397	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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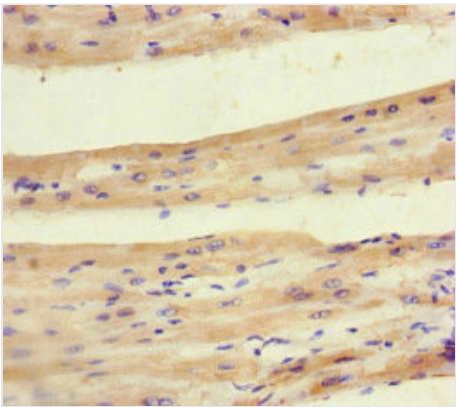
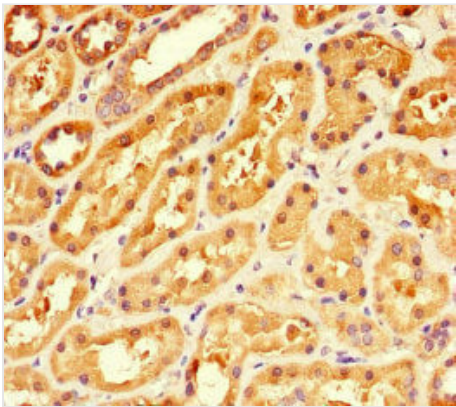
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	411
Applicable Applications for anti-PDK4 antibody	IHC (Immunohistochemistry), ELISA
Species	Human
Immunogen	Recombinant human [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial protein
Conjugate	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-14492 / sc-14495 / sc-133899 / sc-130841
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IHC (Immunohiostchemistry)
Immunohistochemistry of paraffin-embedded human kidney tissue using AAA231397 at dilution of 1:100

IHC (Immunohistochemistry)
Immunohistochemistry of paraffin-embedded human heart tissue using AAA231397 at dilution of 1:100

ADDITIONAL INFORMATION

Related Product Information for anti-PDK4 antibody

Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. This inhibits pyruvate dehydrogenase activity, and thereby regulates metabolite flux through the tricarboxylic acid cycle, down-regulates aerobic respiration and inhibits the formation of acetyl-coenzyme A from pyruvate. Inhibition of pyruvate dehydrogenase decreases glucose utilization and increases fat metabolism in response to prolonged fasting and starvation. Plays an important role in maintaining normal blood glucose levels under starvation, and is involved in the insulin signaling cascade. Via its regulation of pyruvate dehydrogenase activity, plays an important role in maintaining normal blood pH and in preventing the accumulation of ketone bodies under starvation. In the fed state, mediates cellular responses to glucose levels and to a high-fat diet. Regulates both fatty acid oxidation and de novo fatty acid biosynthesis. Plays a role in the generation of reactive oxygen species. Protects detached epithelial cells against anoikis. Plays a role in cell proliferation via its role in regulating carbohydrate and fatty acid metabolism.

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	46,469 Da
NCBI Official Full Name	pyruvate dehydrogenase kinase, isozyme 4
NCBI Official Synonym Full Names	pyruvate dehydrogenase kinase 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://www.aaabiotech.com/polyclonal/pdk4-antibody-immunohistochemistry-elisa/231397>