



Rabbit Anti-PDK3 antibody

SL12599R

Product Name:	PDK3
Chinese Name:	丙酮酸脱氢酶激酶同功酶3抗体
Alias:	[Pyruvate dehydrogenase [lipoamide] kinase isozyme 3 mitochondrial; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3; CMTX6; GS1-358P8.4; mitochondrial; PDK3; PDK3_HUMAN; Pyruvate dehydrogenase kinase isoenzyme 3; Pyruvate dehydrogenase kinase isoform 3; Pyruvate dehydrogenase kinase isozyme 3; Pyruvate dehydrogenase lipoamide kinase isozyme 3 mitochondrial.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	47kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDK3:341-406/406
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2). It provides the primary link between glycolysis and the tricarboxylic acid

(TCA) cycle, and thus is one of the major enzymes responsible for the regulation of glucose metabolism. The enzymatic activity of PDH is regulated by a phosphorylation/dephosphorylation cycle, and phosphorylation results in inactivation of PDH. The protein encoded by this gene is one of the three pyruvate dehydrogenase kinases that inhibits the PDH complex by phosphorylation of the E1 alpha subunit. This gene is predominantly expressed in the heart and skeletal muscles. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]

Function:

Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.

Subcellular Location:

Mitochondrion matrix.

Tissue Specificity:

Found almost exclusively in heart and skeletal muscle.

Similarity:

Belongs to the PDK/BCKDK protein kinase family.
Contains 1 histidine kinase domain.

SWISS:

Q15120

Gene ID:

5165

Database links:

[Entrez Gene: 5165](#) Human

[Entrez Gene: 236900](#) Mouse

[Entrez Gene: 296849](#) Rat

[Omim: 602526](#) Human

[SwissProt: Q15120](#) Human

[SwissProt: Q922H2](#) Mouse

[Unigene: 296031](#) Human

[Unigene: 12775](#) Mouse

[Unigene: 18101](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

www.sunlongbiotech.com