



PDK3 Polyclonal Antibody

Catalog No	YP-Ab-05999
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PDK3 PDHK3
Immunogen	Synthesized peptide derived from human protein . at AA range: 170-250
Specificity	PDK3 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	[Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 3;mitochondrial; CMTX6;EC:2.7.11.2;GS1-358P8.4;PDHK3;PDK3;PDK3 PDHK3;[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3;mitochondrial (EC 2.7.11.2) (Pyruvate dehydrogenase kinase isoform 3)
Observed Band	44kD
Calculated Molecular Weight	44kD
Cell Pathway	Mitochondrion matrix.
Tissue Specificity	Expressed in heart, skeletal muscle, spinal cord, as well as fetal and adult brain.
Function	catalytic activity:ATP + [pyruvate dehydrogenase (acetyl-transferring)] = ADP + [pyruvate dehydrogenase (acetyl-transferring)] phosphate.,function:Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism., similarity:Belongs to the PDK/BCKDK protein kinase family.,similarity:Contains 1 histidine kinase domain.,tissue specificity:Found almost exclusively in heart and skeletal muscle.,



Background

The pyruvate dehydrogenase (PDH) complex is a nuclear-encoded mitochondrial multienzyme complex that catalyzes the overall conversion of pyruvate to acetyl-CoA and CO₂. 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],

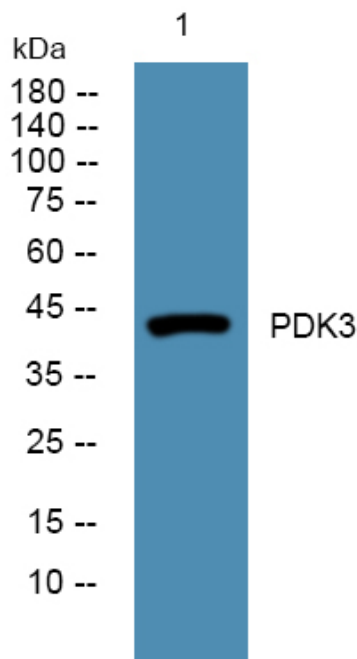
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4° over night