10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PDK1 Antibody

Rabbit polyclonal antibody to PDK1
Catalog # AP59655

Product Information

Application	WB
Primary Accession	Q15118
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49244

Additional Information

Gene ID	5163
Other Names	PDHK1; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 1 mitochondrial; Pyruvate dehydrogenase kinase isoform 1; PDH kinase 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PDK1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

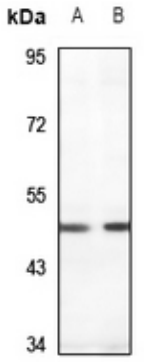
Name	PDK1
Synonyms	PDHK1
Function	Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2 (PubMed:7499431, PubMed:18541534, PubMed:22195962, PubMed:26942675, PubMed:17683942). This inhibits 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 (PubMed:18541534, PubMed:22195962, PubMed:26942675). Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia (PubMed:18541534, PubMed:22195962, PubMed:26942675).

Cellular Location	Mitochondrion matrix
Tissue Location	Expressed predominantly in the heart. Detected at lower levels in liver, skeletal muscle and pancreas

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PDK1. The exact sequence is proprietary.

Images



Western blot analysis of PDK1 expression in H1792 (A), CT26 (B) whole cell lysates.