

**Anti-Human/Mouse/Rat PDK1 Polyclonal Antibody****Polyclonal Antibody****Cat.NO.: PA05539**

3th Edition

**Description:**Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. PDK1 (Pyruvate Dehydrogenase Kinase 1) is a Protein Coding gene. Diseases associated with PDK1 include Chronic Mountain Sickness. Among its related pathways are Development EPO-induced Jak-STAT pathway and PI3K-AKT-mTOR signaling pathway and therapeutic opportunities. GO annotations related to this gene include protein kinase activity and pyruvate dehydrogenase (acetyl-transferring) kinase activity. An important paralog of this gene is PDK2.

**Antigen:**Synthesized peptide derived from the Internal region of human PDK1

**Form:**

**How to use:**1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:**PBS (pH7.4) containing 1% BSA

**Application:**This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:**Expressed predominantly in the heart.