

	PDK2 Rabbit pAb	E 2 5 0 4 0 1 2
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Swiss-Prot No.:	Q15119
Alternane:	PDK2
Storage/Stability:	Store at -20° C. Avoid freeze / thaw cycles.
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 128-407 of human PDK2 (NP_002602.2).
Purification:	Affinity purified
Reactivity:	Human
Other Names:	PDHK2; PDKII
Cellular localization:	Mitochondrion
Relevance:	Kinase that plays a key role in the 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. Mediates cellular responses to insulin. Plays an important role in maintaining normal blood glucose levels and in metabolic adaptation to nutrient availability. 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. Plays a role in the regulation of cell proliferation and in resistance to apoptosis under oxidative stress. Plays a role in p53/TP53-mediated apoptosis.
Source:	Rabbit
Antibody type:	Polyclonal antibody
Isotype:	Rabbit IgG
Molecular Weight:	45kDa
Preservative:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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Recommended Dilutions:	WB 1:500 - 1:2000; IF 1:50 - 1:200 (Optimal dilutions should be determined by the end user)
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