

32-6000: Mouse Anti Human Pyruvate Dehydrogenase Kinase Isozyme 1(Clone:PAT2D6AT.)

Clonality :	Monoclonal
Clone Name :	PAT2D6AT.
Application :	ELISA,WB
Gene :	PDPK1
Gene ID :	5170
Uniprot ID :	O15530
Format :	Purified
Alternative Name :	Pyruvate dehydrogenase kinase isoform 1,PDK1,Pyruvate dehydrogenase (lipoamide) kinase isozyme 1 mitochondrial.
Isotype :	Mouse IgG1 heavy chain and ? light chain.
Immunogen Information :	Anti-human PDK1 mAb is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human PDK1 amino acids 29-436 purified from E. coli.

Description

PDK1 takes part in the regulation of enzymatic activity of mammalian pyruvate dehydrogenase which is part of a mitochondrial multienzyme complex to catalyze the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. PDK1 inhibits glioblastoma growth. PDK1 inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the e1 alpha subunit, therefore contributing to the regulation of glucose metabolism. PDK1 kinase activity is negatively regulated by binding to 14-3-3.

Product Info

Amount :	20 µg
Purification :	PDK1 antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

PDK1 antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:250 ~ 1000. Recommended starting dilution is 1:250.