

## PDK1 Polyclonal Antibody

<b>Catalog No :</b>	YT3644
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC
<b>Target :</b>	PDK1
<b>Fields :</b>	>>HIF-1 signaling pathway;>>Central carbon metabolism in cancer
<b>Gene Name :</b>	PDK1
<b>Protein Name :</b>	[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1 mitochondrial
<b>Human Gene Id :</b>	5163
<b>Human Swiss Prot No :</b>	Q15118
<b>Mouse Gene Id :</b>	228026
<b>Mouse Swiss Prot No :</b>	Q8BFP9
<b>Rat Swiss Prot No :</b>	Q63065
<b>Immunogen :</b>	Synthesized peptide derived from PDK1 . at AA range: 80-160
<b>Specificity :</b>	PDK1 Polyclonal Antibody detects endogenous levels of PDK1 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000;IHC 1:50-300
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 50kD

**Cell Pathway :** T\_Cell\_Receptor;Fc epsilon RI;Neurotrophin;

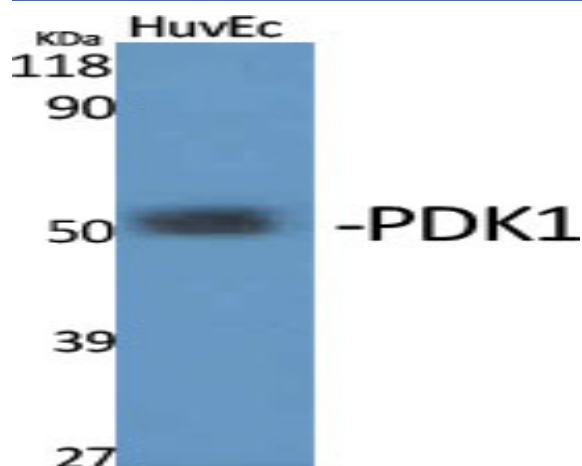
**Background :** Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation 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. [provided by RefSeq, Jun 2013],

**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:Expressed predominantly in the heart.,

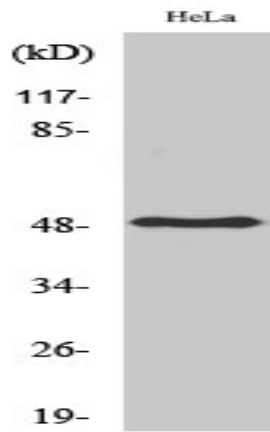
**Subcellular Location :** Mitochondrion matrix .

**Expression :** Expressed predominantly in the heart. Detected at lower levels in liver, skeletal muscle and pancreas.

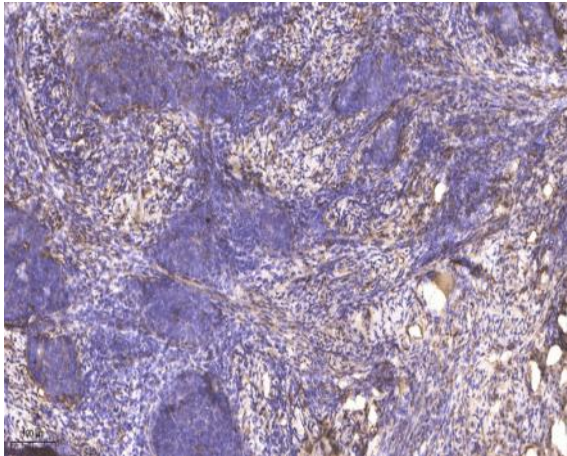
## Products Images



Western Blot analysis of various cells using PDK1 Polyclonal Antibody



Western Blot analysis of HeLa cells using PDK1 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).