

Datasheet for ABIN2856238

anti-PDK1 antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µL
Target:	PDK1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDK1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Pyruvate dehydrogenase kinase 1 / PDK1. The exact sequence is proprietary.
Isotype:	IgG
Specificity:	Based on sequence homology, this antibody may cross react with other PDK family members.
Cross-Reactivity:	Human
Characteristics:	Rabbit polyclonal antibody to PDK1 (pyruvate dehydrogenase kinase, isozyme 1) PDK1 antibody [N1C3]
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	PDK1
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Target Details

Alternative Name:	pyruvate dehydrogenase kinase 1 (PDK1 Products)
Background:	<p>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.</p> <p>Cellular Localization: Mitochondrion matrix</p>
Molecular Weight:	49 kDa
Gene ID:	5163
UniProt:	Q15118
Pathways:	PI3K-Akt Signaling , RTK Signaling , Regulation of Carbohydrate Metabolic Process , Hepatitis C , Warburg Effect

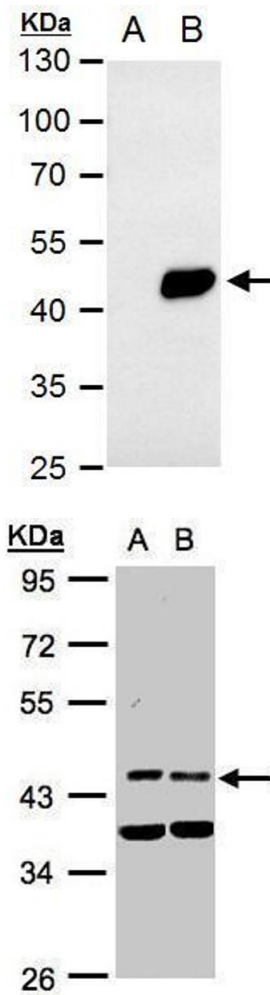
Application Details

Application Notes:	WB: 1:500-1:20000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: HeLaS3 , Molt-4 , human PDK1 transfected 293T cells Validation: Overexpression
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage

(1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



Western Blotting

Image 1. WB Image PDK1 antibody [N1C3] detects PDK1 protein by western blot analysis. A. 30 µg 293T whole cell extract B. 30 µg whole cell extract of human PDK1 transfected 293T cells 10 % SDS-PAGE PDK1 antibody [N1C3] , dilution: 1:10000

Western Blotting

Image 2. WB Image Sample(30 ug whole cell lysate) A:HeLa S3, B:MOLT4 , 10% SDS PAGE antibody diluted at 1:1000