

PDK1 Polyclonal Antibody

Catalog NumberPA5-28342

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Dilution *	
Type	Antibody	Western Blot (WB)	1:500-1:20,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 62 and 432 of Human PDK1	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: A431, HeLaS3, Molt-4. Predicted reactivity: Mouse (95%), Rat (96%), Xenopus laevis (82%), Pig (97%), Chicken (87%), Bovine (95%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

PDK1 (3-phosphoinositide dependent kinase-1) is a serine/threonine protein kinase localized to the plasma membrane. It plays a vital role in insulin-induced glycogen synthesis, PKC activation, and activation of the AGC subfamily of protein kinases. Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia. Protects cells against apoptosis in response to hypoxia and oxidative stress.

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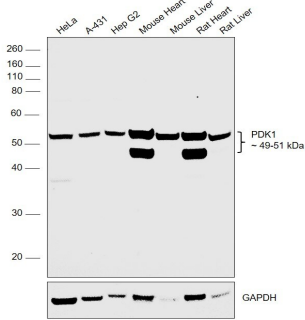
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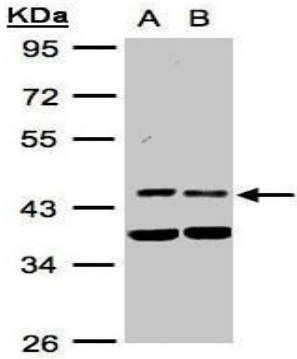
PDK1 Antibody (PA5-28342) in WB

Western blot was performed using Anti-Pyruvate dehydrogenase kinase isozyme 1 Polyclonal Antibody (Product # PA5-28342) and 49-51 kDa bands corresponding to Pyruvate dehydrogenase kinase isozyme 1 protein was observed. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), A-431 (Lane 2), Hep G2 (Lane 3), Mouse Heart (Lane 4), Mouse Liver (Lane 5), Rat Heart (Lane 6) and Rat Liver (lane 7) were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0342BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 0.25 µg/mL, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



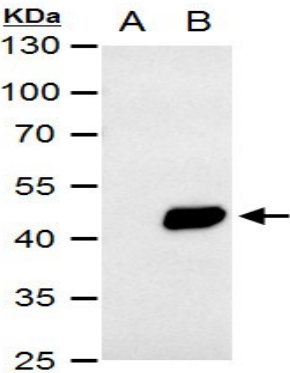
PDK1 Antibody (PA5-28342) in WB

Western Blot using PDK1 Polyclonal Antibody (Product # PA5-28342). Sample (30 µg whole cell lysate). A: HeLa S3. B: MOLT4. 10% SDS PAGE. PDK1 Polyclonal Antibody (Product # PA5-28342) diluted at 1:1,000.



PDK1 Antibody (PA5-28342) in WB

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] PDK1 Polyclonal Antibody (Product # PA5-28342) dilution: 1:10,000.



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