PDK1 polyclonal antibody

PDK-1 (Pyruvate dehydrogenase kinase-1) is a 48 kDa protein kinase. It is a member of the mitrochondrial matrix protein kinase family and is related to the histidine protein kinases found in prokaryotes. PDK-1 is responsible for phosphorylation and concomitant inactivation of pyruvate dehydrogenase.

This antibody is covered by our Worry-Free Guarantee.

Citations: 33

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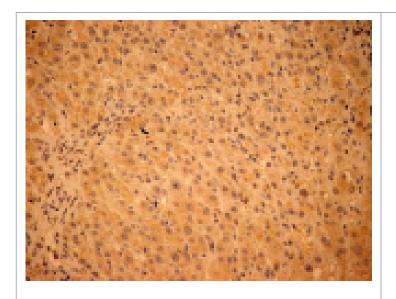
Ordering Information

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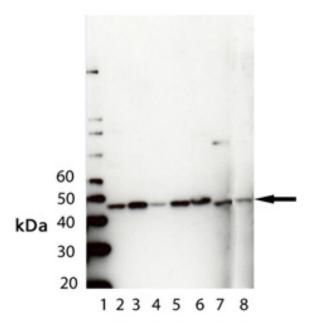
ADI-KAP-PK112-D	50µg
ADI-KAP-PK112-F	200μg

Manuals, SDS & CofA

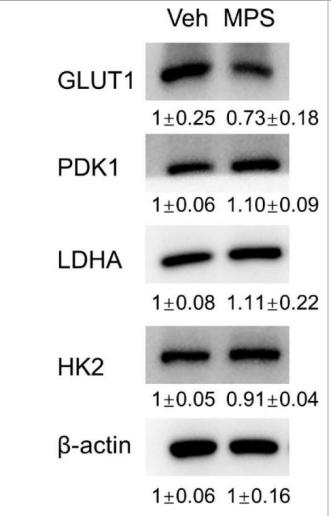
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Immunohistochemistry analysis of human spleen tissue stained with PDK1, pAb at 10µg/ml.



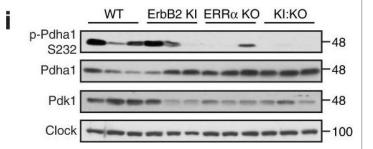
Western blot analysis of PDK1, pAb (Prod. No. KAP-PK112): Lane 1: MW Marker, Lane 2: HeLa Cell Lysate (Prod. No. ADI-LYC-HL100), Lane 3: Rat Brain Lysate (Prod. No. ADI-LYT-RB100), Lane 4: Mouse Brain Lysate (Prod. No. ADI-LYT-MB100), Lane 5: ESK-4 cell Lysate, Lane 6: RK-13 Cell Lysate, Lane 7: MCDK Cell Lysate, Lane 8: Vero Lysate



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Methylprednisolone affects the glucose metabolism of Gli1+ progenitors. (A) OCR: oxygen consumption rate; (B) ECAR: extracellular acidification rate; (C–F) basal respiration (C), maximal respiration (D), ATP production (E), and spare respiratory capacity (F). (G) Western blot was performed to detect the protein expression levels of Glut1, PDK1, LDHA, HK2, and β -actin in Gli1-positive cells exposed to vehicle and MPS, respectively. Numbers below the strip denote the grey values (mean \pm SD) analyzed by ImageJ version2.1.0. Error bar: SD. * p < 0.05, n = 3, Student's t-test.

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Phosphoproteomics identification of ErbB2 and ERRa post-translational control of cardiomyocyte structure and metabolism.a Volcano plots illustrating the significantly up-regulated (red) and down-regulated (blue) phosphopeptides from cardiac phosphoproteomics profiling of mouse models relative to WT (limma, p < 0.05, $|FC| \ge 1.5$, n = 5). b Consolidated phosphomotifs generated by PHOSIDA79 of pSer-modified phosphopeptides found differentially expressed in the mouse models compared to WT showing site-specific amino acid preferences adjacent to the central serine phosphorylated residue. c Phosphopeptide sequence motif discovery by the MoMo27 software tool based on the Motif-x28 algorithm along with PhosphoMotif Finder29 predicted phosphomotif-targeting kinases. d Bar chart showing the number of identified DEPPs from (a) harboring up- and/or down-regulated site-specific phosphorylation (limma, p < 0.05, $|FC| \ge 1.5$, n = 5). e Schematic showing the cardiomyocyte localization of 25% of DEPPs identified in KI:KO hearts from (d). Both the number and directional change of protein phosphosites are indicated. Sarcomere regions are shown: M, M line; Z, Z line; I, I band; A, A band, H, H zone. f Box plot of relative phosphorylation levels of DEPPs important for cardiomyocyte structural integrity across the genotypes relative to WT (n = 5). g Immunoblot analysis of total and phospho-Cx43 (S368) levels in heart tissue extracts (n = 3). Vinculin levels are shown as a loading control. h Box plot of relative phosphorylation levels of DEPPs important for glucose uptake and catabolism across the genotypes relative to WT (n = 5). i Immunoblot analysis of total and phospho-Pdha1 (S232) levels and its upstream kinase Pdk1 in heart tissue extracts (n = 3). Clock levels are shown as a loading control. j Scatter dot plot of mouse cardiac pyruvate dehydrogenase (PDH) activities (n = 5). Data in (f) and (h) are shown as box and whiskers plots: center line denotes median, box extends from 25th to 75th percentiles, and whiskers extend to the lowest and highest values; *p < 0.05, |FC| ≥ 1.5 by limma relative to WT controls. Data in (j) represent means ± SEM; *p < 0.05 by ANOVA. See also Supplementary Fig. 2.

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Handling & Storage

Long Term Storage -20°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name Pyruvate dehydrogenase kinase

Application IHC (PS), WB

Application NotesDetects a band of ~48kDa by Western blot.

Formulation Liquid. In PBS containing 50% glycerol and 0.09% sodium

azide.

GenBank ID L42450

Host Rabbit

Immunogen Synthetic peptide corresponding to a portion of human

PDK1 (Pyruvate dehydrogenase kinase-1).

Purity Detail Protein A affinity purified.

Recommendation Dilutions/Conditions Western Blot (1:1,000, ECL)Suggested dilutions/conditions

may not be available for all applications. Optimal conditions

must be determined individually for each application.

Source Purified from rabbit serum.

Species Reactivity Dog, Human, Monkey, Mouse, Porcine, Rabbit, Rat

UniProt ID Q15118

Worry-free Guarantee This antibody is covered by our Worry-Free Guarantee

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