

Datasheet for ABIN391039
anti-PDK4 antibody (C-Term)

6 Images

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Overview

Quantity:	200 µL
Target:	PDK4
Binding Specificity:	AA 382-410, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDK4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PDK4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 382-410 amino acids from the C-terminal region of human PDK4.
Clone:	RB03041
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PDK4
Alternative Name:	PDK4 (PDK4 Products)

Target Details

Background:	PKD4 inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
Molecular Weight:	46469
Gene ID:	5166
NCBI Accession:	NP_002603
UniProt:	Q16654
Pathways:	PI3K-Akt Signaling , Hedgehog Signaling , Carbohydrate Homeostasis , Regulation of Carbohydrate Metabolic Process , Warburg Effect

Application Details

Application Notes:	IF: 1:100. WB: 1:2000. WB: 1:2000. WB: 1:2000. IHC-P: 1:10~50. IHC-P: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.
Expiry Date:	6 months

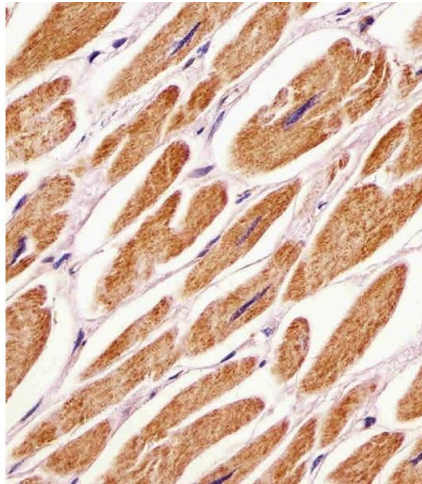
Publications

Product cited in:	Lin, Liu, Sun, Yuan, Zhang, Chen: "Establishment and characterization of a tamoxifen-mediated reversible immortalized mouse dental papilla cell line." in: In vitro cellular & developmental biology. Animal , Vol. 49, Issue 2, pp. 114-21, (2013) (PubMed).
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Kaushik, Arias, Kwon, Lopez, Athonvarangkul, Sahu, Schwartz, Pessin, Singh: "Loss of autophagy in hypothalamic POMC neurons impairs lipolysis." in: **EMBO reports**, Vol. 13, Issue 3, pp. 258-65, (2012) ([PubMed](#)).

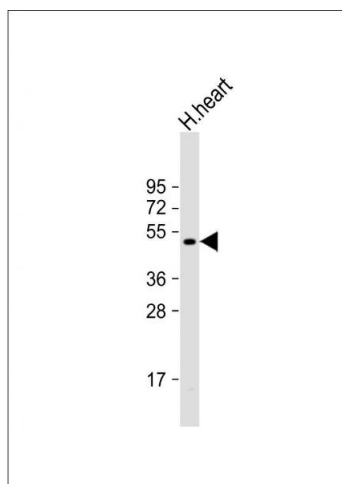
There are more publications referencing this product on: [Product page](#)

Images



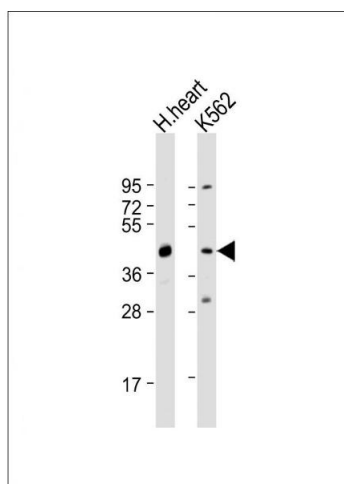
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. (ABIN391039 and ABIN2841206) staining PDK4 in human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hour at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Western Blotting

Image 2. Anti-PDK4 Antibody (C-term) at 1:2000 dilution + human heart lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa. Blocking/Dilution buffer: 5 % NFDM/TBST.



Western Blotting

Image 3. All lanes : Anti-PDK4 Antibody (C-term) at 1:2000 dilution Lane 1: human heart lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 46 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN391039.