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Datasheet for ABIN5663787

anti-PDPK1 antibody (AA 1-150)

5 Images

1 Publication

Overview

Quantity:	100 µL
Target:	PDPK1
Binding Specificity:	AA 1-150
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDPK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-150 of human PDK1/PDHK1 (NP_002601.1).
Sequence:	MRLARLLRGA ALAGPGPLR AAGFSRSFSS DSGSSPASER GVPGQVDFYA RFSPSPLSMK QFLDFGSVNA CEKTSFMFLR QELPVRLANI MKEISLLPDN LLRTPSVQLV QSWYIQLSQE LLDFKDKSAE DAKAIYDFTD TVIRIRNRHN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	PDPK1
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Target Details

Alternative Name: PDK1 ([PDPK1 Products](#))

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.,PDK1,Cancer,Signal Transduction,PI3K-Akt Signaling Pathway,Protein Kinase C Signaling Pathway,Endocrine & Metabolism,Carbohydrate metabolism,Warburg Effect,Immunology & Inflammation,T Cell Receptor Signaling Pathway,NF- κ B Signaling Pathway,Kinase of Akt,PDK1

Molecular Weight: 49 kDa/51 kDa

Gene ID: 5163

UniProt: [Q15118](#)

Pathways: [PI3K-Akt Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Cell-Cell Junction Organization](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

Application Details

Application Notes: WB,1:500 - 1:1000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

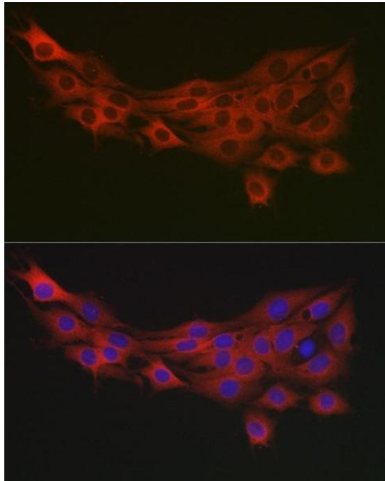
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Product cited in:

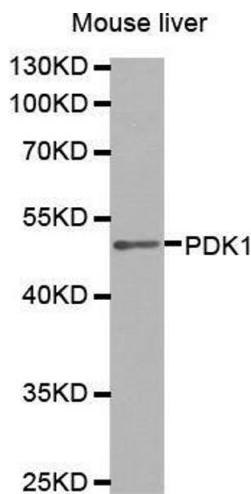
Qin, Zheng, Zhou, Ou, Huang, Yan, Qin, Yang, Su, Bai, Guo, Lin: "Tsc1 deficiency impairs mammary development in mice by suppression of AKT, nuclear ER α , and cell-cycle-driving proteins." in: **Scientific reports**, Vol. 6, pp. 19587, (2017) ([PubMed](#)).

Images



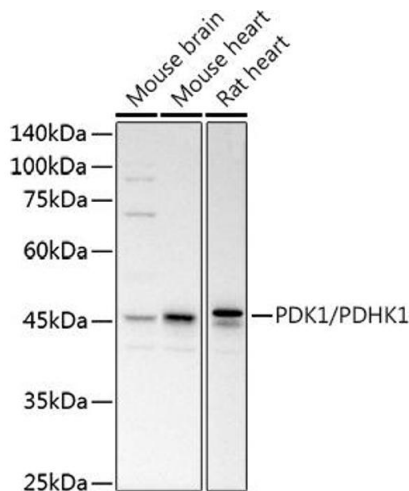
Immunofluorescence

Image 1. Immunofluorescence analysis of PC-12 cells using PDK1/PDHK1 Rabbit pAb (ABIN3015351, ABIN3015352, ABIN1681301, ABIN5663787 and ABIN6214001) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2.



Western Blotting

Image 3. Western blot analysis of extracts of various cell lines, using PDK1/PDHK1 antibody (ABIN3015351, ABIN3015352, ABIN1681301, ABIN5663787 and ABIN6214001) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μ g per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time:

3s.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5663787.