

Datasheet for ABIN969347

anti-PDPK1 antibody

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Overview

Quantity:	100 µL
Target:	PDPK1
Reactivity:	Human, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PDPK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human PDK1 expressed in E. coli.
Clone:	4A11
Isotype:	IgG1
Purification:	purified

Target Details

Target:	PDPK1
Alternative Name:	PDK1 (PDPK1 Products)
Background:	Description: 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

Target Details

enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDK) results in inactivation. (provided by RefSeq). Tissue specificity: Expressed predominantly in the heart.
Aliases: PDK1

Molecular Weight:	44 kDa
Gene ID:	5163
HGNC:	5163
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:	ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % 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.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage

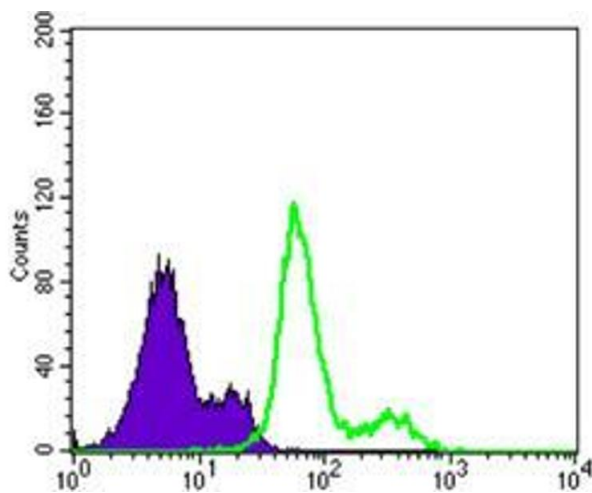
Publications

Product cited in:	Weisberg, Banerji, Wright, Barrett, Ray, Moreno, Catley, Jiang, Hall-Meyers, Sauveur-Michel, Stone, Galinsky, Fox, Kung, Griffin: "Potentiation of antileukemic therapies by the dual PI3K/PDK-1 inhibitor, BAG956: effects on BCR-ABL- and mutant FLT3-expressing cells." in: Blood , Vol. 111, Issue 7, pp. 3723-34, (2008) (PubMed).
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Pinner, Sahai: "PDK1 regulates cancer cell motility by antagonising inhibition of ROCK1 by RhoE."
" in: **Nature cell biology**, Vol. 10, Issue 2, pp. 127-37, (2008) ([PubMed](#)).

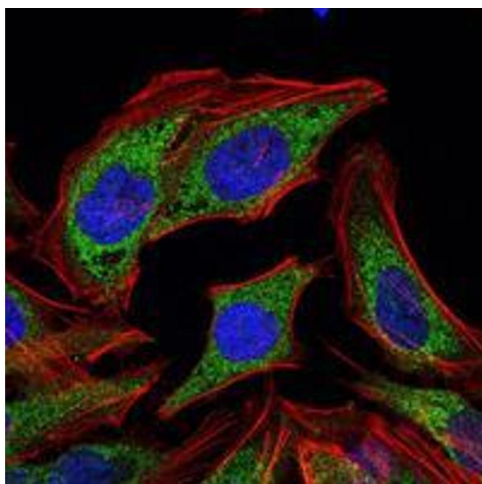
Seong, Jung, Kim, Ha: "3-Phosphoinositide-dependent PDK1 negatively regulates transforming growth factor-beta-induced signaling in a kinase-dependent manner through physical interaction with Smad proteins." in: **The Journal of biological chemistry**, Vol. 282, Issue 16, pp. 12272-89, (2007) ([PubMed](#)).

Images



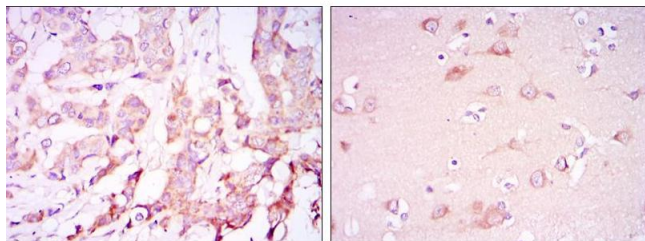
Flow Cytometry

Image 1. Flow cytometric analysis of Lovo cells using PDK1 mouse mAb (green) and negative control (purple).



Immunofluorescence

Image 2. Immunofluorescence analysis of HELA cells using PDK1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffin-embedded breast cancer tissues (left) and brain tissues (right) using PDK1 mouse mAb with DAB staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN969347.