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Datasheet for ABIN3028963

anti-PDK4 antibody (AA 382-410)

7 Images

1 Publication

Overview

Quantity:	0.2 mL
Target:	PDK4
Binding Specificity:	AA 382-410
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDK4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Multiplex Immunohistochemistry (mIHC)

Product Details

Immunogen:	A portion of amino acids 382-410 from the human protein was used as the immunogen for this PDK4 antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	PDK4
Alternative Name:	PDK4 (PDK4 Products)
Background:	PDK4 inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.

Target Details

UniProt: [Q16654](#)

Pathways: [PI3K-Akt Signaling](#), [Hedgehog Signaling](#), [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate Metabolic Process](#), [Warburg Effect](#)

Application Details

Application Notes: Titration of the PDK4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Immunofluorescence: 1:100,Western blot: 1:1000,IHC (Paraffin): 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

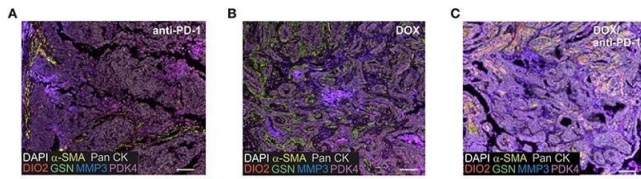
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the PDK4 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

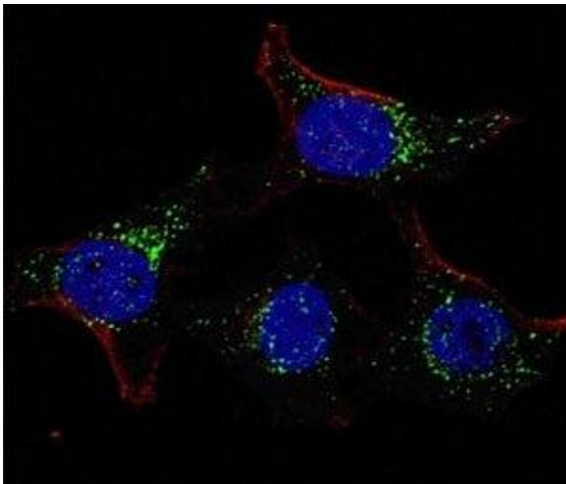
Publications

Product cited in: Sirait-Fischer, Olesch, Fink, Berkefeld, Huard, Schmid, Takeda, Brüne, Weigert: "Immune Checkpoint Blockade Improves Chemotherapy in the PyMT Mammary Carcinoma Mouse Model." in: **Frontiers in oncology**, Vol. 10, pp. 1771, (2020) ([PubMed](#)).



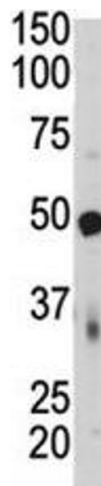
Multiplex Immunohistochemistry

Image 1. Representative images show combined expression of all markers for (A) anti-PD-1, (B) doxorubicin (DOX), and (C) DOX plus anti-PD-1 treated tumors. Source: PMID33014872



Immunofluorescence

Image 2. Fluorescent confocal image of HeLa cells stained with PDK4 antibody. For secondary Ab, Alexa Fluor 488 conjugated donkey anti-rabbit Ab (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). PDK4 is localize



Western Blotting

Image 3. Western blot of PDK4 antibody and mouse skeletal muscle tissue lysate. Predicted molecular weight ~46 kDa

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3028963.