

PDK1 Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA1013
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human PDK1 expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human,Rat,Monkey
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC, FCM, ELISA
Concentration	1 mg/ml
Full name	Pyruvate dehydrogenase (acetyl-transferring) kinase isozyme 1, mitochondrial
Synonyms	PDK1; PDHK1; Pyruvate dehydrogenase (lipoamide) kinase isozyme 1; mitochondrial; Pyruvate dehydrogenase kinase isoform 1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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.

Recommended Dilution

FC: 1:200 - 1:400

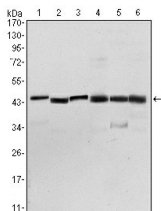
IF: 1:200 - 1:1000

IHC: 1:200 - 1:1000

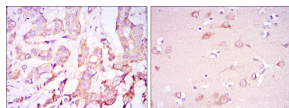
WB: 1:500 - 1:2000

Not yet tested in other applications.

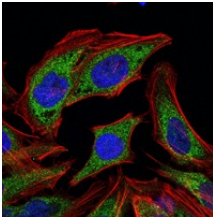
Images



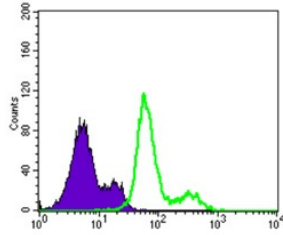
Western Blot analysis using PDK1 Monoclonal antibody against NIH/3T3 (1) HeLa (2) Jurkat (3) HepG2 (4) PC-12 (5) and Cos7 (6) cell lysate.



Immunohistochemistry analysis of paraffin-embedded breast cancer tissues (left) and brain tissues (right) with DAB staining using PDK1 Monoclonal antibody.



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



Flow cytometric analysis of Lovo cells using PDK1 Monoclonal antibody (green) and negative control (purple).

Storage

-20°C for one year

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