PDK2 Antibody

Catalog No: #34945

Package Size: #34945-1 50ul #34945-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description		
Product Name	PDK2 Antibody	
Host Species	Rabbit	
Clonality	Polyclonal	
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific	
	immunogen.	
Applications	WB	
Species Reactivity	Hu Ms	
Specificity	The antibody detects endogenous levels of total PDK2 protein.	
Immunogen Type	Peptide	
Immunogen Description	Synthesized peptide derived from internal of human PDK2.	
Target Name	PDK2	
Other Names	EC 2.7.11.2; kinase Pyruvate dehydrogenase kinase 2; PDK2; Pyruvate dehydrogenase [lipoamide] kinase	
	isozyme 2; mitochondrial precursor	
Accession No.	Swiss-Prot: Q15119NCBI Gene ID: 5164	
Uniprot	Q15119	
GenelD	5164;	
SDS-PAGE MW	46kd	
Concentration	1.0mg/ml	
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide	
	and 50% glycerol.	
Storage	Store at -20°C	

Application Details

Western blotting: 1:500~1:3000

Images

Нер	G2 HepG2
	117
	- 85
PDK2	48
	34
	26
	19
	19 (kD)

Western blot analysis of extracts from HepG2 cells, using PDK2 antibody #34945.

Background

Serine/threonine kinase that plays a key role in the regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. This inhibits pyruvate dehydrogenase activity, and thereby regulates metabolite flux through the tricarboxylic acid cycle, down-regulates aerobic respiration and inhibits the formation of acetyl-coenzyme A from pyruvate. Inhibition of pyruvate dehydrogenase decreases glucose utilization and increases fat metabolism. Mediates cellular responses to insulin. Plays an important role in maintaining normal blood glucose levels and in metabolic adaptation to nutrient availability. Via its regulation of pyruvate dehydrogenase activity, plays an important role in maintaining normal blood pH and in preventing the accumulation of ketone bodies under starvation. Plays a role in the regulation of cell proliferation and in resistance to apoptosis under oxidative stress. Plays a role in p53/TP53-mediated apoptosis. Gudi R., J. Biol. Chem. 270:28989-28994(1995).

The MGC Project Team, Genome Res. 14:2121-2127(2004). Greenman C., Nature 446:153-158(2007).

Note: This product is for in vitro research use only