antibodies - online.com







anti-PDK2 antibody

Images



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Quantity:	100 μL
Target:	PDK2
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PDK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	This PDK2 monoclonal antibody is generated from mouse immunized with PDK2 recombinant
	protein.
Clone:	protein. 7E5
Clone:	
	7E5

Target Details

Target:	PDK2
Alternative Name:	PDK2 (PDK2 Products)

Target Details

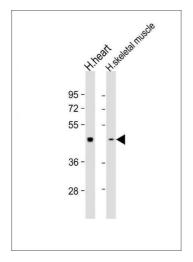
Background:	Synonyms: PDHK2, PDKII, [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2,
	mitochondrial, Pyruvate dehydrogenase kinase isoform 2, PDH kinase 2, PDK2
	Background: Kinase that plays a key role in the regulation of glucose and fatty acid metabolism
	and homeostasis via phosphorylation 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.
Gene ID:	5164
UniProt:	Q15119
Pathways:	PI3K-Akt Signaling, RTK Signaling, Carbohydrate Homeostasis, Regulation of Carbohydrate
	Metabolic Process, Warburg Effect
Application Details	
Application Notes:	WB 1:300-5000
	IHC-P 1:200-400
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	0.5 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

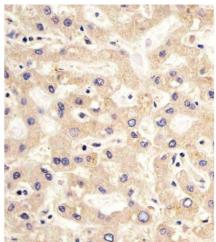
Expiry Date: 12 months

Images



Western Blotting

Image 1. Lane 1: human heart, Lane 2: human skeletal muscle lysate at 20 μ g per lane. probed with bsm-51043M PDK2 (180CT10.2.3) Monoclonal Antibody at 1:1000 dilution and 4°C overnight incubation, followed by secondary antibody incubation for 60min at room temperature.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded Human Liver tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with PDK2 (180CT10.2.3) Monoclonal Antibody (bsm-51043M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.