

Anti-PDK1 Antibody (clone 4A11)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS18408

Product Information

Application	WB, IHC-P, IF, ICC, E, FC
Primary Accession	Q15118
Predicted	Human, Rat, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	4A11
Calculated MW	49244

Additional Information

Gene ID	5163
Alias Symbol	PDK1
Other Names	PDK1, PDHK, PDH kinase 1, PDHK1
Target/Specificity	Human PDK1
Reconstitution & Storage	Ascites
Precautions	Anti-PDK1 Antibody (clone 4A11) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PDK1
Synonyms	PDHK1
Function	Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2 (PubMed: 7499431 , PubMed: 18541534 , PubMed: 22195962 , PubMed: 26942675 , PubMed: 17683942). 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 (PubMed: 18541534 , PubMed: 22195962 , PubMed: 26942675). Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia (PubMed: 18541534 , PubMed: 22195962 , PubMed: 26942675).

Cellular Location	Mitochondrion matrix
Tissue Location	Expressed predominantly in the heart. Detected at lower levels in liver, skeletal muscle and pancreas

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.