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# Anti-PDK1 Antibody (clone 4A11)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS18408

## Product Information

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| **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

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|---|---|
| **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

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| **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). |

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| **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'.