

## Rabbit PDK1 Polyclonal Antibody | anti-PDK1 antibody

PDK1 Polyclonal Antibody

|                               |                       |                                        |                                     |
|-------------------------------|-----------------------|----------------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA295571</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-------------------------------------|

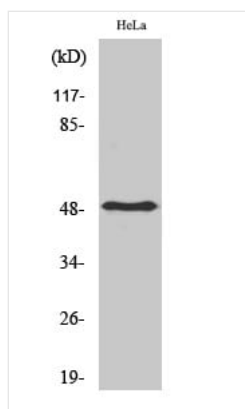
### PRODUCT SYNONYMS

PDK1; Polyclonal Antibody; PDK1 Polyclonal Antibody; PDHK1; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1; mitochondrial; Pyruvate dehydrogenase kinase isoform 1; anti-PDK1 antibody

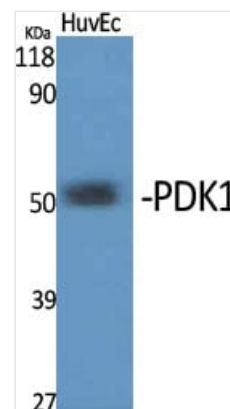
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                     |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Applicable Applications for anti-PDK1 antibody | WB (Western Blot)                                                                                                                                     |
| Preparation and Storage                        | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

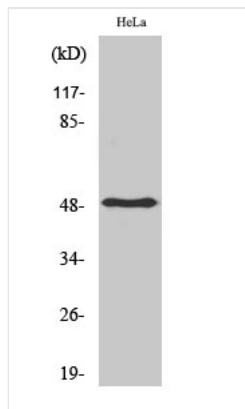
### IMAGES


**WB (Western Blot)**

Dilution: Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.

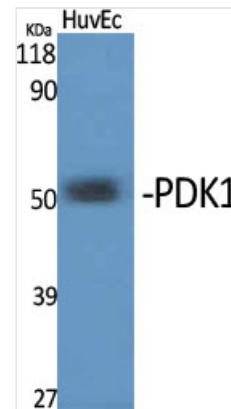

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## ADDITIONAL INFORMATION

### Related Product Information for anti-PDK1 antibody

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. 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. Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia. Protects cells against apoptosis in response to hypoxia and oxidative stress.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4505689                                                                                                                                                                 |
| NCBI GeneID                      | 5163                                                                                                                                                                    |
| NCBI Accession #                 | NP_002601.1                                                                                                                                                             |
| NCBI GenBank Nucleotide #        | NM_002610.4                                                                                                                                                             |
| UniProt Accession #              | Q15118; B2R6T1; D3DPD8                                                                                                                                                  |
| Molecular Weight                 | 49,244 Da                                                                                                                                                               |
| NCBI Official Full Name          | pyruvate dehydrogenase kinase, isozyme 1 isoform 2                                                                                                                      |
| NCBI Official Synonym Full Names | pyruvate dehydrogenase kinase, isozyme 1                                                                                                                                |
| NCBI Official Symbol             | PDK1                                                                                                                                                                    |
| NCBI Protein Information         | pyruvate dehydrogenase kinase, isozyme 1; PDH kinase 1; pyruvate dehydrogenase kinase, isoenzyme 1; mitochondrial pyruvate dehydrogenase, lipoamide, kinase isoenzyme 1 |
| UniProt Protein Name             | [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 1, mitochondrial                                                                                                    |
| UniProt Gene Name                | <b>PDK1</b>                                                                                                                                                             |
| UniProt Synonym Gene Names       | PDHK1; PDH kinase 1                                                                                                                                                     |
| UniProt Entry Name               | PDK1_HUMAN                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdk1-antibody-western-blot-elisa/295571>