



Anti-PDK4 (aa 181-280) polyclonal antibody (DPAB-DC2194)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin. |
| Immunogen | PDK4 (AAH40239, 181 a.a. ~ 280 a.a) partial recombinant protein with GST tag. The sequence is SDSQTGNPSHIGSIDPNCDVVAVVQDAFGCSRMLCDQYYLSSPELKLTQANGKFPDQPIH IVYVPSHLHHMLFELFKNAMRATVEHQENQPSLTPIEVIV |
| Source/Host | Mouse |
| Species Reactivity | Human |
| Conjugate | Unconjugated |
| Applications | WB (Recombinant protein), ELISA, |
| Size | 50 µl |
| Buffer | 50 % glycerol |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | PDK4 pyruvate dehydrogenase kinase, isozyme 4 [Homo sapiens (human)] |
| Official Symbol | PDK4 |
| Synonyms | PDK4; pyruvate dehydrogenase kinase, isozyme 4; pyruvate dehydrogenase kinase, isoenzyme 4; pyruvate dehydrogenase, lipoamide, kinase isozyme 4, mitochondrial; [Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial; [Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 4, mitochondrial; |
| Entrez Gene ID | 5166 |
| Protein Refseq | NP_002603 |
| UniProt ID | A4D1H4 |
| Chromosome Location | 7q21.3 |
| Pathway | Metabolism; Pyruvate metabolism and Citric Acid (TCA) cycle; The citric acid (TCA) cycle and respiratory electron transport; |
| Function | ATP binding; protein kinase activity; protein serine/threonine kinase activity; pyruvate dehydrogenase (acetyl-transferring) kinase activity |