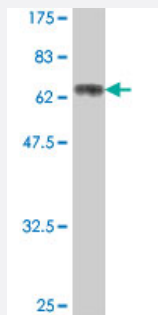


PDK4 polyclonal antibody (A02)

Catalog # H00005166-A02

Size 50 uL

Applications



Western Blot detection against Immunogen (71.32 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a full-length recombinant PDK4.
Immunogen	PDK4 (AAH40239.1, 1 a.a. ~ 411 a.a) full-length recombinant protein with GST tag.
Sequence	MKAARFVLRSAAGSLNGAGLVPREVEHFSRYSPSPLSMKQLLDGSENACERTSFAFLRQELPVR LANILKEIDILPTQLVNTSSVQLVKSQYQSLMDLVEFHEKSPDDQKALSDFVDTLIKVRNRHHNVV PTMAQGIIIEYKDACTVDPVTNQNLQYFLDRFYMNRISTRMLMNQHILIFSDSQTGNPSHIGSIDPNCD VVAVVQDAFECRMLCDQYYLSSPELKLTVNGKFPDQPIHIVYVPSHLHHMLFELFKNAMRATV EHQENQPSLTPIEVIVVLGKEDLTIKISDRGGGVPLRIIDRLFSYTYSTAPTPVMDNSRNAPLAGFGY GLPISRLYAKYFQGDLNLYSLSGYGTDAIMLKALSSSEIEKLPVFNKSFAFKHYQMSSEADDWCIPSR EPKNLAKEVAM
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (71.32 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — PDK4

Entrez GeneID [5166](#)

GeneBank Accession# [BC040239](#)

Protein Accession# [AAH40239.1](#)

Gene Name PDK4

Gene Alias FLJ40832

Gene Description pyruvate dehydrogenase kinase, isozyme 4

Omim ID [602527](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations pyruvate dehydrogenase kinase 4|pyruvate dehydrogenase kinase, isoenzyme 4

Publication Reference

- [G0/G1 Switch Gene 2 controls adipose triglyceride lipase activity and lipid metabolism in skeletal muscle.](#)

Laurens C, Badin P, Louche K, Mairal A, Tavernier G, Marette A, Tremblay A, Weisnagel SJ, Joannis DR, Langin D, Bourlier V, Moro C.

Molecular Metabolism 2016 Apr; 5(7):527.

Application: WB, Mouse, Mouse skeletal muscle

- [White-to-brite conversion in human adipocytes promotes metabolic reprogramming towards fatty acid anabolic and catabolic pathways.](#)

Barquissau V, Beuzelin D, Pisani DF, Beranger GE, Mairal A, Montagner A, Roussel B, Tavernier G, Marques MA, Moro C, Guillou H, Amri EZ, Langin D.

Molecular Metabolism 2016 Mar; 5(5):352.

Application: WB, Human, Human multipotent adipose-derived stem (hMADS) cells

- [Remodeling of oxidative energy metabolism by galactose improves glucose handling and metabolic switching in human skeletal muscle cells.](#)

Kase ET, Nikolic N, Bakke SS, Bogen KK, Aas V, Thoresen GH, Rustan AC.

PLoS One 2013 Apr; 8(4):e59972.

Application: WB-Ce, Human, Myotubes

- [Peroxisome Proliferator-Activated Receptor- \$\alpha\$ Control of Lipid and Glucose Metabolism in Human White Adipocytes.](#)

Ribet C, Montastier E, Valle C, Bezaire V, Mazzucotelli A, Mairal A, Viguerie N, Langin D.

Endocrinology 2010 Jan; 151(1):123.

Application: WB-Ce, Human, Adipocytes

- [Activation of liver X receptor \(LXR\) regulates substrate oxidation in white adipocytes.](#)

Stenson BM, Ryden M, Steffensen KR, Wahlen K, Pettersson AT, Jocken JW, Amer P, Laurencikiene J.

Endocrinology 2009 Sep; 150(9):4104.

Application: WB, Murine, Human, 3T3-L1 cells, adipocytes

Disease

- [Diabetes Mellitus](#)