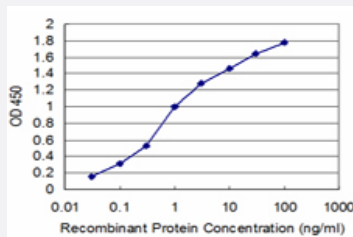


PDK4 monoclonal antibody (M04), clone 1A10

Catalog # H00005166-M04

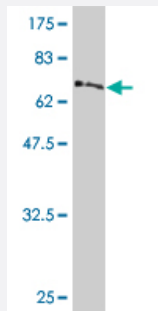
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PDK4 is approximately 0.1ng/ml as a capture antibody.



Western Blot detection against Immunogen (70.95 KDa) .

Specification

Product Description

Mouse monoclonal 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. MW of the GST tag alone is 26 KDa.

Sequence

MKAARFVLRSAAGSLNGAGLVPREVEHFSRYSPSPLSMKQLLDGSENACERTSFAFLRQELPVR
LANILKEIDILPTQLVNTSSVQLVKSQYIQLMDLVEFHEKSPDDQKALSDFVDTLIKVRNRHHNVV
PTMAQGIIIEYKDACTVDPVTNQNLQYFLDRFYMNRISTRMLMNQHILIFSDSQTGNPSHIGSIDPNCD
VVAVVQDAFECRMLCDQYYLSSPELKLTVNGKFPDQPIHVYVPSLHHMLFELFKNAMRATV
EHQENQPSLTPIEVIVVLGKEDLTIKISDRGGGVPLRIIDRLFSYTYSTAPTPVMDNSRNAPLAGFGY
GLPISRLYAKYFQGDNLNLSLSGYGTDAIYKALSSSEIEKLPVFNKSAFKHYQMSSEADDDWCIPSR
EPKNLAKEVAM

Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (70.95 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PDK4 is approximately 0.1ng/ml as a capture antibody.

[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

- [Alteration of energy metabolism in the pathogenesis of bile duct lesions in primary biliary cirrhosis.](#)

Harada K, Kakuda Y, Sato Y, Ikeda H, Shimoda S, Yamamoto Y, Inoue H, Ohta H, Kasashima S, Kawashima A, Nakanuma Y.
Journal of Clinical Pathology 2014 May; 67(5):396.

Application: IHC-P, WB-Ce, Human, Liver

- [The Increase in Cardiac Pyruvate Dehydrogenase Kinase-4 after Short-Term Dexamethasone Is Controlled by an Akt-p38-Forkhead Box Other Factor-1 Signaling Axis.](#)

Puthanveetil P, Wang Y, Wang F, Kim MS, Abrahani A, Rodrigues B.
Endocrinology 2010 May; 151(5):2306.

Application: WB-Ce, Rat, Rat cardiomyocytes

Disease

- [Diabetes Mellitus](#)