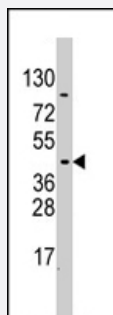


PDK4 polyclonal antibody

Catalog # PAB4565

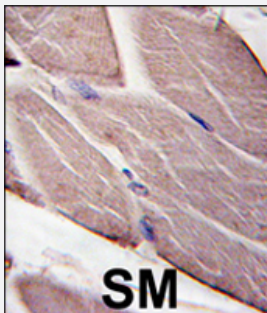
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of PDK4 polyclonal antibody (Cat # PAB4565) in CEM cell line lysates (35 ug/lane). PDK4 (arrow) was detected using the purified PDK4 polyclonal antibody (Cat # PAB4565) (1 : 60 dilution).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PDK4 polyclonal antibody (Cat # PAB4565) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining . This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PDK4.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human PDK4.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification

Recommend Usage	ELISA (1:1000) Western Blot (1:50-100) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PDK4

Entrez GeneID	5166
Protein Accession#	NP_002603;Q16654
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

- [Reduced PDK4 expression associates with increased insulin sensitivity in postobese patients.](#)

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- [Downregulation of metabolic gene expression in failing human heart before and after mechanical unloading.](#)

Razeghi P, Young ME, Ying J, Depre C, Uray IP, Kolesar J, Shipley GL, Moravec CS, Davies PJ, Frazier OH, Taegtmeyer H.

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- [Cloning and characterization of PDK4 on 7q21.3 encoding a fourth pyruvate dehydrogenase kinase isoenzyme in human.](#)

Rowles J, Scherer SW, Xi T, Majer M, Nickle DC, Rommens JM, Popov KM, Harris RA, Riebow NL, Xia J, Tsui LC, Bogardus C, Prochazka M.

The Journal of Biological Chemistry 1996 Sep; 271(37):22376.

Disease

- [Diabetes Mellitus](#)