

PANK1 polyclonal antibody

Catalog # PAB2718

Size 400 uL

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PANK1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to internal region of human PANK1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) 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
- Immunohistochemistry

Gene Info — PANK1

Entrez GeneID

[53354](#)

Protein Accession#	NP_683878:Q8TE04
Gene Name	PANK1
Gene Alias	MGC24596, PANK, PANK1a, PANK1b
Gene Description	pantothenate kinase 1
Omim ID	606160
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a protein belonging to the pantothenate kinase family. Pantothenate kinase is a key regulatory enzyme in the biosynthesis of coenzyme A (CoA) in bacteria and mammalian cell s. It catalyzes the first committed step in the universal biosynthetic pathway leading to CoA and is itself subject to regulation through feedback inhibition by CoA. Alternative splicing has been observed at this locus and three variants, each encoding a distinct isoform, have been identified. [provided by RefSeq]
Other Designations	OTTHUMP00000020071 OTTHUMP00000020072 pantothenic acid kinase

Publication Reference

- [PPARalpha controls the intracellular coenzyme A concentration via regulation of PANK1alpha gene expression.](#)
Ramaswamy G, Karim MA, Murti KG, Jackowski S.
Journal of Lipid Research 2004 Jan; 45(1):17.
Application: IF, WB-Tr, Human, Monkey, COS-7, HepG2 cells
- [Cloning and characterization of a novel human pantothenate kinase gene.](#)
Ni X, Ma Y, Cheng H, Jiang M, Ying K, Xie Y, Mao Y.
The International Journal of Biochemistry & Cell Biology 2002 Feb; 34(2):109.
- [A novel pantothenate kinase gene \(PANK2\) is defective in Hallervorden-Spatz syndrome.](#)
Zhou B, Westaway SK, Levinson B, Johnson MA, Gitschier J, Hayflick SJ.
Nature Genetics 2001 Aug; 28(4):345.

Pathway

- [Metabolic pathways](#)
- [Pantothenate and CoA biosynthesis](#)

Disease

- [Alzheimer Disease](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Tobacco Use Disorder](#)