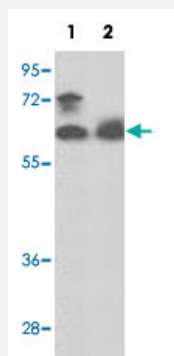


# PANK1 polyclonal antibody

Catalog # PAB2717

Size 400 uL

## Applications



### Western Blot

Western blot analysis of PANK1 polyclonal antibody (Cat # PAB2717) in MCF-7 cell line (Lane 1) and mouse spleen tissue lysates (Lane 2)(35 ug/lane).

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of PANK1.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PANK1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Recommend Usage</b>	Western Blot (1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot

Western blot analysis of PANK1 polyclonal antibody (Cat # PAB2717) in MCF-7 cell line (Lane 1) and mouse spleen tissue lysates (Lane 2)(35 ug/lane).

## 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 cells. 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](#)