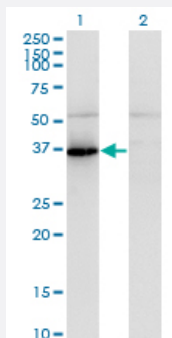


# PANK1 polyclonal antibody (A01)

Catalog # H00053354-A01

Size 50 uL

## Applications

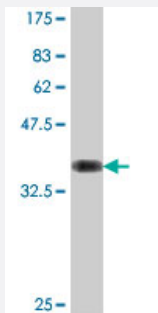


### Western Blot (Transfected lysate)

Western Blot analysis of PANK1 expression in transfected 293T cell line by PANK1 polyclonal antibody (A01).

Lane1:PANK1 transfected lysate (Predicted MW: 41.7 KDa).

Lane2:Non-transfected lysate.



Western Blot detection against Immunogen (37.11 KDa) .

## Specification

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| Product Description           | Mouse polyclonal antibody raised against a partial recombinant PANK1.                                    |
| Immunogen                     | PANK1 (NP_683878, 310 a.a. ~ 409 a.a) partial recombinant protein with GST tag.                          |
| Sequence                      | IRFPSCAMHRFIQMGSEKNFSSLHTTLCATGGGAFKFEEDFRMIADLQLHKLDELDCLIQGLLYVD<br>SVGFNGKPECYYFENPTNPELCQKKPYCLDNPYP |
| Host                          | Mouse                                                                                                    |
| Reactivity                    | Human                                                                                                    |
| Interspecies Antigen Sequence | Mouse (96); Rat (98)                                                                                     |

**Quality Control Testing**

Antibody Reactive Against Recombinant Protein.  
Western Blot detection against Immunogen (37.11 KDa) .

**Storage Buffer**

50 % glycerol

**Storage Instruction**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of PANK1 expression in transfected 293T cell line by PANK1 polyclonal antibody (A01).

Lane1:PANK1 transfected lysate (Predicted MW: 41.7 KDa).

Lane2:Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

## Gene Info — PANK1

**Entrez GeneID**

[53354](#)

**GeneBank Accession#**

[NM\\_148977](#)

**Protein Accession#**

[NP\\_683878](#)

**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**

- [p53 activates the PANK1/miRNA-107 gene leading to downregulation of CDK6 and p130 cell cycle proteins.](#)

Bohlig L, Friedrich M, Engeland K.

Nucleic Acids Research 2011 Jan; 39(2):440.

Application: WB-Ce, WB-Tr, Human, HCT-116 cells

**Pathway**

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

**Disease**

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