

**PANK2 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP52014**

**Specification**

---

**PANK2 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, E                  |
| Primary Accession | <a href="#">O9BZ23</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 50 KDa                 |

**PANK2 Antibody - Additional Information**

**Gene ID** 80025

**Other Names**

Pantothenate kinase 2, mitochondrial, hPanK2, Pantothenic acid kinase 2, PANK2, C20orf48

**Format**

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**PANK2 Antibody - Protein Information**

**Name** PANK2

**Synonyms** C20orf48

**Function**

[Isoform 1]: Mitochondrial isoform that catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis (PubMed: [15659606](http://www.uniprot.org/citations/15659606), PubMed: [17825826](http://www.uniprot.org/citations/17825826), PubMed: [17242360](http://www.uniprot.org/citations/17242360), PubMed: [16272150](http://www.uniprot.org/citations/16272150)). Required for angiogenic activity of umbilical vein of endothelial cells (HUVEC) (PubMed: [30221726](http://www.uniprot.org/citations/30221726)).

**Cellular Location**

[Isoform 1]: Mitochondrion. Mitochondrion intermembrane space. Nucleus Note=Localizes predominantly to the mitochondria and to a lesser extent to the nucleus. Found in both the mitochondria and the nucleus throughout the cell cycle, with the exception of the G2/M phase when it is restricted to mitochondria. [Isoform 3]: Cytoplasm {ECO:0000269|PubMed:12554685, ECO:0000305}

**Tissue Location**

Expressed in the brain (at protein level) (PubMed:15659606, PubMed:17825826). Ubiquitous (PubMed:11479594) Highly expressed in the testis (PubMed:17825826). Expressed in the umbilical vein endothelial cells (HUVEC) (PubMed:30221726)

**PANK2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PANK2 Antibody - Images****PANK2 Antibody - Background**

May be the master regulator of the CoA biosynthesis (By similarity).

**PANK2 Antibody - References**

Hoertnagel K.,et al.Hum. Mol. Genet. 12:321-327(2003).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Deloukas P.,et al.Nature 414:865-871(2001).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Bechtel S.,et al.BMC Genomics 8:399-399(2007).