

# PANK2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP52014

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9BZ23</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	62681

## Additional Information

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<b>Gene ID</b>	80025
<b>Other Names</b>	Pantothenate kinase 2, mitochondrial, hPank2, Pantothenic acid kinase 2, PANK2, C20orf48
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PANK2. The exact sequence is proprietary.
<b>Dilution</b>	WB~~1:1000
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	PANK2
<b>Synonyms</b>	C20orf48
<b>Function</b>	[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: <a href="#">15659606</a> , PubMed: <a href="#">16272150</a> , PubMed: <a href="#">17242360</a> , PubMed: <a href="#">17825826</a> ). Required for angiogenic activity of umbilical vein of endothelial cells (HUVEC) (PubMed: <a href="#">30221726</a> ).
<b>Cellular Location</b>	[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)

**Background**

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

**References**

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- 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).

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