

PANK2 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52014

Product Information

Application	WB
Primary Accession	Q9BZ23
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62681

Additional Information

Gene ID	80025
Other Names	Pantothenate kinase 2, mitochondrial, hPanK2, Pantothenic acid kinase 2, PANK2, C20orf48
Dilution	WB~~1:1000
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

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 , PubMed: 16272150 , PubMed: 17242360 , PubMed: 17825826). Required for angiogenic activity of umbilical vein of endothelial cells (HUVEC) (PubMed: 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)

Background

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

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).

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