

# PANK1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7159b

#### **Product Information**

**Application** WB, IHC-P, E **Primary Accession Q8TE04 Other Accession Q8K4K6** Reactivity Human **Predicted** Mouse Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB5483 **Calculated MW** 64339 332-360 **Antigen Region** 

### **Additional Information**

**Gene ID** 53354

Other Names Pantothenate kinase 1, hPanK1, Pantothenic acid kinase 1, PANK1,

PANK

Target/Specificity This PANK1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 332-360 amino acids from the Central

region of human PANK1.

**Dilution** WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** PANK1 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

### **Protein Information**

Name PANK1

**Synonyms** PANK

**Function** [Isoform 1]: Catalyzes the phosphorylation of pantothenate to generate

4'-phosphopantothenate in the first and rate-determining step of coenzyme A

(CoA) synthesis.

**Cellular Location** Cytoplasm. [Isoform 2]: Cytoplasm, cytosol. Cytoplasmic vesicle,

clathrin-coated vesicle. Recycling endosome

**Tissue Location** [Isoform 1]: Expressed at high levels in brain, heart, kidney, liver, skeletal

muscle and testis

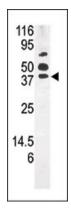
## **Background**

PANK1 belongs 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.

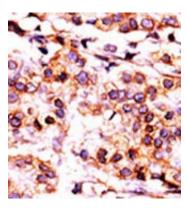
### References

Ramaswamy, G., et al., J. Lipid Res. 45(1):17-31 (2004). Ni, X., et al., Int. J. Biochem. Cell Biol. 34(2):109-115 (2002). Zhou, B., et al., Nat. Genet. 28(4):345-349 (2001). Westaway, S.K., et al., Int. J. Biochem. Cell Biol. 34 (12), 1629 (2002) (): (). Robishaw, J.D., et al., Am. J. Physiol. 248 (1 PT 1), E1-E9 (1985) (): ().

## **Images**



Western blot analysis of anti-PANK1 Pab (Cat. #AP7159b) in mouse kidney tissue lysate (35ug/lane). PANK1(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.