

**PANK3 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7161B****Specification**

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**PANK3 Antibody (Center) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q9H999</a>
Other Accession	<a href="#">Q8R2W9</a> , <a href="#">Q08DA5</a>
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41094
Antigen Region	150-181

**PANK3 Antibody (Center) - Additional Information****Gene ID** 79646**Other Names**

Pantothenate kinase 3, hPank3, Pantothenic acid kinase 3, PANK3

**Target/Specificity**

This PANK3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 150-181 amino acids from the Central region of human PANK3.

**Dilution**

WB~~1:1000

IHC-P~~1:50~100

**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**

PANK3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PANK3 Antibody (Center) - Protein Information****Name** PANK3

**Function** Catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis.

**Cellular Location**

Cytoplasm {ECO:0000269|PubMed:23152917, ECO:0000305}

**Tissue Location**

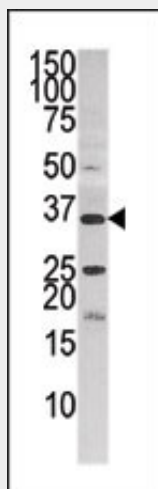
Highly expressed in the liver.

**PANK3 Antibody (Center) - Protocols**

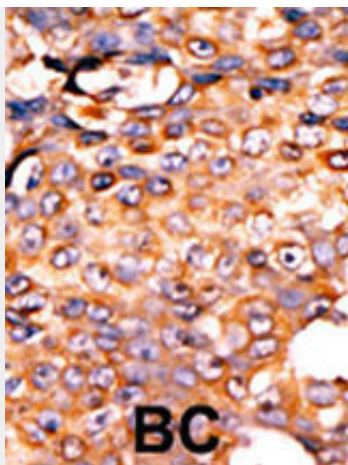
Provided below are standard protocols that you may find useful for product applications.

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

**PANK3 Antibody (Center) - Images**



Western blot analysis of anti-PANK3 (Cat. #AP7161b) in HepG2 cell line lysate (35ug/lane). PANK3 (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.

#### **PANK3 Antibody (Center) - Background**

PANK3 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. This family member is expressed most abundantly in the liver.

#### **PANK3 Antibody (Center) - References**

Zhou, B., et al., Nat. Genet. 28(4):345-349 (2001).  
Robishaw, J.D., et al., Am. J. Physiol. 248 (1 PT 1), E1-E9 (1985) (): ().