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PANK1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7159b

Specification

PANK1 Antibody (Center) - Product Information

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

PANK1 Antibody (Center) - Additional Information

Gene ID 53354

Other Names
Pantothenate kinase 1, hPanK, 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~~1:50~100

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
PANK1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PANK1 Antibody (Center) - 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

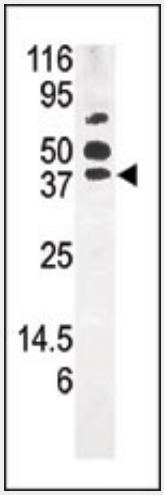
Tissue Location
[Isoform 1]: Expressed at high levels in brain, heart, kidney, liver, skeletal muscle and testis

PANK1 Antibody (Center) - Protocols

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

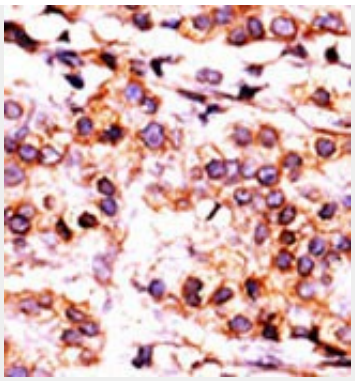
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PANK1 Antibody (Center) - 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.

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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.

PANK1 Antibody (Center) - 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.

PANK1 Antibody (Center) - 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).
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