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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, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5483
Calculated MW	64339
Antigen Region	332-360

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~~1:100~500 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

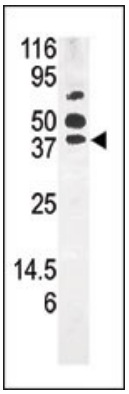
Background

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.

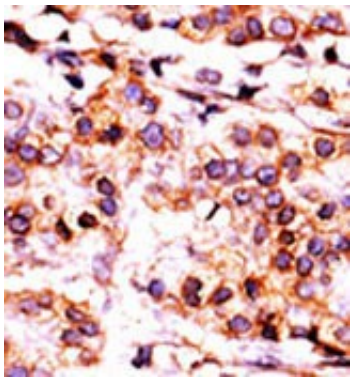
References

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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'.