

Rabbit PANK1 Polyclonal Antibody | anti-PANK1 antibody

PANK1 Antibody (Center)

CATALOG # AAA287369	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Mouse)	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
-------------------------------	-----------------------	--	--

PRODUCT SYNONYMS

PANK1; Polyclonal Antibody; PANK1 Antibody (Center); Pantothenate kinase 1; hPanK; hPanK1; Pantothenic acid kinase 1; PANK; anti-PANK1 antibody

PRODUCT SPECIFICATIONS

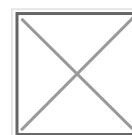
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PANK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 332-360 amino acids from the Central region of human PANK1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	332-360
Sequence Length	400
Applicable Applications for anti-PANK1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

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.



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-PANK1 antibody	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.
Product Categories/Family for anti-PANK1 antibody	Metabolism; Signal Transduction
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) ().

NCBI AND UNIPROT INFORMATION

NCBI GI #	23510398
NCBI GeneID	53354
NCBI Accession #	NP_612189.2; NP_683878.1; NP_683879.1
NCBI GenBank Nucleotide #	NM_138316.3
UniProt Accession #	Q8TE04; Q7RTX6; Q7Z495; Q8TBQ8; A6NIP0
NCBI Official Full Name	pantothenate kinase 1 isoform gamma
NCBI Official Synonym Full Names	pantothenate kinase 1
NCBI Official Symbol	PANK1
NCBI Official Synonym Symbols	PANK
NCBI Protein Information	pantothenate kinase 1
UniProt Protein Name	Pantothenate kinase 1
UniProt Gene Name	PANK1
UniProt Synonym Gene Names	PANK; hPank; hPank1
UniProt Entry Name	PANK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.