

Rabbit anti-Human, mouse PANK1 Polyclonal Antibody | anti-PANK1 antibody

PANK1 Antibody (N-term)

CATALOG # AAA286734	HOST Rabbit	REACTIVITY Human, mouse	APPLICATIONS ELISA, Western Blot
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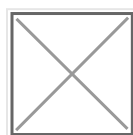
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PANK1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 75-105 amino acids from the N-terminal 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	75-105
Sequence Length	400
Applicable Applications for anti-PANK1 antibody	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 degrees C for up to 2 weeks. For long term storage store at -20 degrees C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of hPANK1-R90 in MCF-7 cell line and mouse spleen tissue lysates (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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pank1-antibody-western-blot-elisa/286734>