

**PANK1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP7159a****Specification**

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**PANK1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q8TE04](#)**PANK1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 53354**Other Names**

Pantothenate kinase 1, hPanK, hPanK1, Pantothenic acid kinase 1, PANK1, PANK

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP7159a](/product/products/AP7159a) was selected from the N-term region of human PANK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PANK1 Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **PANK1 Antibody (N-term) Blocking Peptide - Images**

## **PANK1 Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - 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) ( ): ( ).