

PANK1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7159b**Specification**

PANK1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q8TE04](#)**PANK1 Antibody (Center) 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 [AP7159b](/product/products/AP7159b) was selected from the Center 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 (Center) 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PANK1 Antibody (Center) Blocking Peptide - Images

PANK1 Antibody (Center) 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 (Center) 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) ().