

Anti-PanK4 (Thr63) Antibody

**Our Anti-PanK4 (Thr63) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is p
Catalog # AN1509**

Specification

Anti-PanK4 (Thr63) Antibody - Product Information

Primary Accession	Q80YV4
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	91522

Anti-PanK4 (Thr63) Antibody - Additional Information

Gene ID **269614**

Other Names

DKFZp547M242 antibody, FLJ10782 antibody, hPanK 4 antibody, hPanK4 antibody, PANK 4 antibody, Pantothenate kinase 4 antibody, Pantothenic acid kinase antibody

Target/Specificity

Pantothenate kinase, PanK, is a vital regulatory enzyme for coenzyme A (CoA) biosynthesis, phosphorylating pantothenate (vitamin B5) to 4'-phosphopantothenate, then quickly transforming to CoA which is an essential component for fatty acid metabolism (Abiko, Y, 1967). There are 4 members of the PanK family, located on chromosomes 10q23.31, 20p13, 5q35, and 1p36.32 (Zhou et al, 2001). PanK1 is predominantly in heart, liver, and kidney. PanK2 is expressed ubiquitously, with higher levels in retinal and infant basal ganglia. PanK3 has high levels in liver, while PanK4 is expressed ubiquitously with its highest levels found in muscle (Zhou et al, 2001). Additionally, PanK4 has been shown to regulate Pkm2 activity affecting glucose metabolism (Li et al, 2005). There have been several phospho-serine, threonine, and tyrosine sites identified within PanK4, the role of each one has yet to be determined.

Format

Antigen Affinity Purified from Pooled Serum

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-PanK4 (Thr63) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

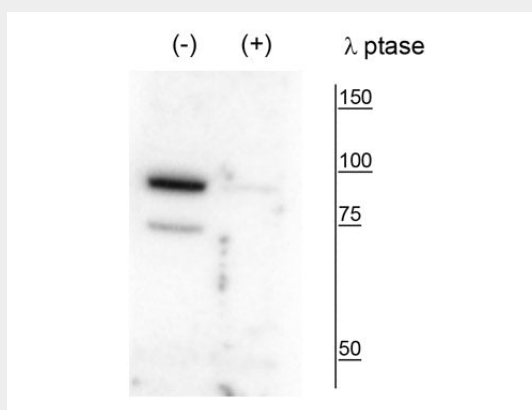
Blue Ice

Anti-PanK4 (Thr63) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PanK4 (Thr63) Antibody - Images



Western blot of mouse whole brain lysate showing specific labeling of the ~86 kDa PanK4 phosphorylated at Ser63 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is nearly eliminated with lambda phosphatase (λ -Ptase, 1200 units for 30 minutes).

Anti-PanK4 (Thr63) Antibody - Background

Pantothenate kinase, PanK, is a vital regulatory enzyme for coenzyme A (CoA) biosynthesis, phosphorylating pantothenate (vitamin B5) to 4'-phosphopantothenate, then quickly transforming to CoA which is an essential component for fatty acid metabolism (Abiko, Y, 1967). There are 4 members of the PanK family, located on chromosomes 10q23.31, 20p13, 5q35, and 1p36.32 (Zhou et al, 2001). PanK1 is predominantly in heart, liver, and kidney. PanK2 is expressed ubiquitously, with higher levels in retinal and infant basal ganglia. PanK3 has high levels in liver, while PanK4 is expressed ubiquitously with its highest levels found in muscle (Zhou et al, 2001). Additionally, PanK4 has been shown to regulate Pkm2 activity affecting glucose metabolism (Li et al, 2005). There have been several phospho-serine, threonine, and tyrosine sites identified within PanK4, the role of each one has yet to be determined.