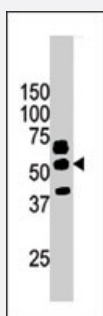


PANK2 polyclonal antibody

Catalog # PAB2719

Size 400 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of PANK2 polyclonal antibody (Cat # PAB2719) in mouse liver tissue lysate (35 ug/lane). PANK2 (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PANK2.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 65-95 at N-terminus of human PANK2.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of PANK2 polyclonal antibody (Cat # PAB2719) in mouse liver tissue lysate (35 ug/lane). PANK2 (arrow) was detected using the purified polyclonal antibody.

Gene Info — PANK2

Entrez GeneID	80025
---------------	-----------------------

Protein Accession#	AAN32907;Q9BZ23
--------------------	---------------------------------

Gene Name	PANK2
-----------	-------

Gene Alias	C20orf48, FLJ17232, HARP, HSS, MGC15053, NBIA1, PKAN
------------	--

Gene Description	pantothenate kinase 2
------------------	-----------------------

Omim ID	234200 606157 607236
---------	--

Gene Ontology	Hyperlink
---------------	---------------------------

Gene Summary	This gene encodes a protein belonging to the pantothenate kinase family and is the only member of that family to be expressed in mitochondria. 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 acyl CoA species. Mutations in this gene are associated with HARP syndrome and pantothenate kinase-associated neurodegeneration (PKAN), formerly Hallervorden-Spatz syndrome. Alternative splicing, involving the use of alternate first exons, results in multiple transcripts encoding different isoforms. [provided by RefSeq]
--------------	--

Other Designations	Hallervorden-Spatz syndrome OTTHUMP00000030143 OTTHUMP00000030148 pantothenic acid kinase
--------------------	---

Publication Reference

- [Compound heterozygous PANK2 mutations confirm HARP and Hallervorden-Spatz syndromes are allelic.](#)

Houlden H, Lincoln S, Farrer M, Cleland PG, Hardy J, Orrell RW.

Neurology 2003 Nov; 61(10):1423.

- [An isoform of hPANK2, deficient in pantothenate kinase-associated neurodegeneration, localizes to mitochondria.](#)

Hortnagel K, Prokisch H, Meitinger T.

Human Molecular Genetics 2003 Feb; 12(3):321.

Pathway

- [Metabolic pathways](#)
- [Pantothenate and CoA biosynthesis](#)

Disease

- [Neurodegenerative Diseases](#)
- [Parkinson disease](#)