

Recombinant Human PANK2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PANK2-3173H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PANK2 MS Standard C13 and N15-labeled recombinant protein (NP_705902) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	59.1 kDa
AA Sequence	MRRLGPFHPRVHWAAPPSLSSGLHRLFLRGTRIPSSSTTLSPPRHDSLSLDGGTVN PPRVREPTGREAFGPSPASSDWLPARWRNGRGGRPRARLCSGWTAEEARRNPT LGLLGRQRLLLRMGGGRLGAPMERHGRASATSVSSAGEQAAGDPEGRRQEPLR RRASSASVPAVGASAEGTRRDRLGSYSGPTSVSRQRVESLRKKRPLFPWFGLDIG

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GTLVKLVYFEPKDITAEVEEVEESLKSIRKYLTENVAYGSTGIRDVHLELKDLTLCGR
KGNLHFIRFPTHDMPAFIQMGRDKNFSSLHTVFCATGGGAYKFEQDFTIGDLQLCK
LDELDCIKGILYIDSVGFNGRSQCYYFENPADSEKCQKLPFDLKNPYPLLLVNIGSG
VSILAVYSKDNYKRVTGTSLGGGTFFGLCCLLTGCTTFEEALEMASRGDSTKVVDKLV
RDIYGGDYERFGLPGWAVASSFGNMMSKEKREAVSKEDLARATLITITNNIGSIARM
CALNENINQVVFVGNFLRINTIAMRLLAYALDYWSKGQLKALFSEHEGYFGAVGALLE
LLKIPSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PANK2 PANK2 protein [Homo sapiens (human)]

Official Symbol PANK2

Synonyms PANK2; PANK2 protein; HSS; HARP; PKAN; NBIA1; C20orf48; FLJ11729; MGC15053;

Gene ID 80025

mRNA Refseq NM_153638

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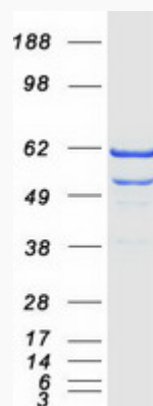
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Protein Refseq NP_705902

MIM 606157

UniProt ID Q9BZ23

SDS-PAGE



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