

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

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

## SPECIFICATION

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

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 45-1 Ramsey Road, Shirley, NY 11967, USA

GTLVKLVYFEPKDITAEVEEVEESLKSIRKYLTSTNVAYGSTGIRDVHLELKDLTLCGR  
KGNLHFIRFPTHDMPAFIQMGRDKNFSSLHTVFCATGGGAYKFEQDFTIGDLQLCK  
LDELDCLIKILYIDSVGFNGRSQCYYFENPADSEKCQKLPFDLKNPYPLLLVNIGSG  
VSILAVYSKDNYKRVGTGSLGGGTFFGLCCLLTGCTTFEEALEMASRGDSTKVVDKLV  
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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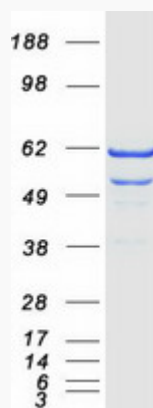
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**Protein Refseq** NP\_705902

**MIM** 606157

**UniProt ID** Q9BZ23

**SDS-PAGE**



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