

## Product datasheet for TP315676L

### PANK2 (NM\_153638) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pantothenate kinase 2 (PANK2), nuclear gene encoding mitochondrial protein, transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215676 representing NM_153638 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MRRLGPFHPRVHWAAPPSLSSGLHRLFLRGTTRIPSSSTLSPPRHDSLSLDGGTVNPPRVREPTGREAFG  PSPASSDWLPARWRNNGRGRPRARLCSGWTAEEARRNPTLGGLLGRQRLLLRMGGGRLGAPMERHGRAS  ATSVSSAGEQAAGDPEGRRQEPLRRRASSASVPAVGASAEGTRRDRLGYSYSGPTSVSRQRVESLRKKRPL  FPWFGLDIGGTLVKLVYFEPKDITAEESLKSIRKYLTSNVAYGSTGIRDVHLELKDLCGRKG  NLHFIRFPTHDMPAFIQMGRDKNFSSLHTVFCATGGGAYKFEQDFLTIGDLQLCKLDELDCIKGILYID  SVGFNGRSQCYFENPADSEKCQKLPFDLKNPYPLLLVNIAGSGVSILAVYSKDNYKRVGTSLGGGTFFG  LCCLLTGCTTFEEALEMASRGDSTKVDKLVDRDIYGGDYERFGLPGWAVASSFGNMMSKEKREAVSKEDLA  RATLITITNIGSIARMCALNENINQVVFVGNFLRINTIAMRLLAYALDYWSKGQLKALFSEHEGYFGAV  GALLELLKIP</p> <p><b>SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	59.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_705902](#)

**Locus ID:** 80025

**UniProt ID:** [Q9BZ23](#)

**RefSeq Size:** 2280

**Cytogenetics:** 20p13

**RefSeq ORF:** 1710

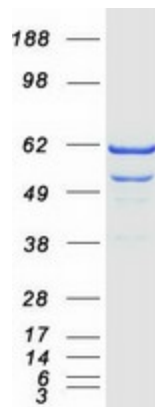
**Synonyms:** C20orf48; HARP; HSS; NBIA1; PKAN

**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, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Pantothenate and CoA biosynthesis

### Product images:



Coomassie blue staining of purified PANK2 protein (Cat# [TP315676]). The protein was produced from HEK293T cells transfected with PANK2 cDNA clone (Cat# [RC215676]) using MegaTran 2.0 (Cat# [TT210002]).