

Product datasheet for PH315676

PANK2 (NM_153638) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PANK2 MS Standard C13 and N15-labeled recombinant protein (NP_705902)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215676
Predicted MW:	59.1 kDa
Protein Sequence:	>RC215676 representing NM_153638 Red=Cloning site Green=Tags(s)

MRRLGPFHPRVHWAAPPSLSSGLHRLFLRGTRIPSSSTLSPPRHDSLSDGGTVNPPRVREPTGREAFG
PSPASSDWLPAWRNNGRGRPRARLCSGWTAAEEARRNPTLGGLLGRQRLLLRMGGGRLGAPMERHGRAS
ATSVSSAGEQAAGDPEGRRQEPLRRRASSASVPVAVGASAEGRDRDLGSYSGPTSVSRQVRESLRKKRPL
FPWFGLDIGGTLVKLVYFEPKDIATAEEEEVEVSLKSIRKYLTSNVAYGSTGIRDVHLELKDLTLCGRKG
NLHFIRFPTHDMPAFIQMRDKNFSSLHTVFCATGGGAYKFEQDFLTIGDLQLCKLDELDCIKGILYID
SVGFNGRSQCYYFENPADSEKQKLPFDLKNPYPLLLVNI GSGVSI LAVYSKDNYKRVGTSLGGGTFFG
LCCLLTGCTTFEEALEMASRGDSTKVDKLVVDIYGGDYERFGLPGWAVASSFGNMMSKEKREAVSKEDLA
RATLITITNIGSIARMCALNENINQVVFVGNFLRINTIAMRLLAYALDYWSKGQLKALFSEHEGYFGAV
GALLELLKIP

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_705902
RefSeq Size:	2280
RefSeq ORF:	1710



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Synonyms: C20orf48; HARP; HSS; NBIA1; PKAN

Locus ID: 80025

UniProt ID: [Q9BZ23](#)

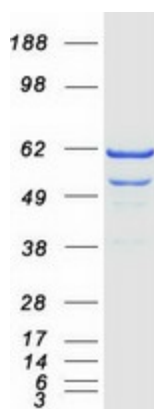
Cytogenetics: 20p13

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]).