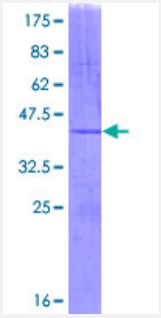
PANK2 (Human) Recombinant Protein (Q01)

Catalog # H00080025-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PANK2 partial ORF (NP_705902.2, 437 a.a. - 570 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	MASRGDSTKVDKLVRDIYGGDYERFGLPGWAVASSFGNMMSKEKREAVSKEDLARATLITITNNI GSIARMCALNENINQVVFVGNFLRINTIAMRLLAYALDYWSKGQLKALFSEHEGYFGAVGALLELLKI P
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	41.2
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PANK2

Entrez GeneID	80025
GeneBank Accession#	NM_153638.2
Protein Accession#	NP_705902.2
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 com mitted step in the universal biosynthetic pathway leading to CoA and is itself subject to regulation t hrough feedback inhibition by acyl CoA species. Mutations in this gene are associated with HAR P syndrome and pantothenate kinase-associated neurodegeneration (PKAN), formerly Hallervord en-Spatz syndrome. Alternative splicing, involving the use of alternate first exons, results in multipl e transcripts encoding different isoforms. [provided by RefSeq
Other Designations	Hallervorden-Spatz syndrome|OTTHUMP00000030143|OTTHUMP00000030148|pantothenic aci d kinase

Pathway

- Metabolic pathways

- Pantothenate and CoA biosynthesis

Disease

- Neurodegenerative Diseases
- Parkinson disease