PANK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PANK2, Polyclonal Antibody
Full Product Name	PANK2 Antibody, HRP conjugated
Product Gene Name	anti-PANK2 antibody
Product Synonym Names	Pantothenate kinase 2; mitochondrial; Pantothenic acid kinase 2; PANK2; C20orf48
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PANK2 (MBS7051272) HRP Conjugated Antibody: PANK2 (MBS7051273)
Molecular Weight	50,582 Da
OMIM	AF494409 mRNA
3D Structure	ModBase 3D Structure for Q9BZ23
Immunogen	Recombinant Human Pantothenate kinase 2, mitochondrial protein (437-490AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	HRP
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-130834 / sc-82288 / sc-82292
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PANK2 antibody	ELISA (EIA)
Related Product Information for anti-PANK2 antibody	MBS7051273 is an antibody targeting PANK2. Also known as PANK2 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit. May be the master regulator of the CoA biosynthesis.
Other Notes	Small volumes of anti-PANK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PANK2. It may not necessarily be applicable to this product.

NCBI GI #	1023300911
NCBI GeneID	80025

NCBI Accession #	NP_001311120.1
UniProt Primary Accession #	Q9BZ23
UniProt Secondary Accession #	Q5T7I2; Q5T7I4; Q7RTX5; Q8N7Q4; Q8TCR5; Q9BYW5; Q9HAF2; B1AK33; B2Z3X0; D3DVZ0
UniProt Related Accession #	Q9BZ23
GenBank Nucleotide #	NM_001324191.1
NCBI Official Full Name	pantothenate kinase 2, mitochondrial isoform 2
NCBI Official Synonym Full Names	pantothenate kinase 2
NCBI Official Symbol	PANK2
NCBI Official Synonym Symbols	HSS; HARP; PKAN; NBIA1; C20orf48
UniProt Protein Name	Pantothenate kinase 2, mitochondrial
UniProt Synonym Protein Names	Pantothenic acid kinase 2
Protein Family	Pantothenate kinase
UniProt Gene Name	PANK2
UniProt Synonym Gene Names	C20orf48; hPanK2
UniProt Entry Name	PANK2_HUMAN
NCBI Protein Information	pantothenate kinase 2, mitochondrial
NCBI Summary for PANK2	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]
UniProt Comments for PANK2	PANK2: a pantothenate kinase that catalyzes the first committed step in the biosynthesis of coenzyme A, an essential cofactor in cellular metabolism. PANK2 is predominantly localized in mitochondria in primates. Defects in PANK2 are the cause of pantothenate kinase-associated neurodegeneration (PKAN), an autosomal recessive neurodegenerative disorder associated with iron accumulation in the brain. Three isoforms of the human PANK2, produced by alternative splicing, have been reported. Protein type: Cofactor and Vitamin Metabolism - pantothenate and CoA biosynthesis; EC 2.7.1.33; Kinase, other; Mitochondrial Chromosomal Location of Human Ortholog: 20p13 Cellular Component: cytoplasm; mitochondrial intermembrane space Molecular Function: pantothenate kinase activity Biological Process: coenzyme biosynthetic process; regulation of fatty acid metabolic process Disease: Hypoprebetalipoproteinemia, Acanthocytosis, Retinitis Pigmentosa, And Pallidal Degeneration; Neurodegeneration With Brain Iron Accumulation 1
Research Articles on PANK2	**1.** Tissue or cellular hypoxic/ischemic injury within the globus pallidus may underlie the pathogenesis of pantothenate kinase-associated neurodegeneration due to PANK2 mutations and apoE aggregates.
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