

## Product datasheet for **TA501419AM**

### **PANK2 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3G4]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI3G4
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PANK2 (NP_705902) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	59.1 kDa
Gene Name:	pantothenate kinase 2
Database Link:	<a href="#">NP_705902</a> <a href="#">Entrez Gene 74450 Mouse</a> <a href="#">Entrez Gene 296167 Rat</a> <a href="#">Entrez Gene 80025 Human</a> <a href="#">Q9BZ23</a>



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**Background:**

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]

**Synonyms:**

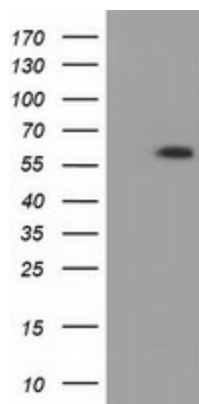
C20orf48; HARP; HSS; NBIA1; PKAN

**Protein Families:**

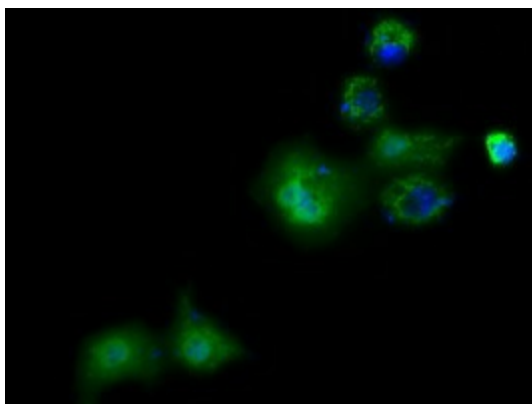
Druggable Genome

**Protein Pathways:**

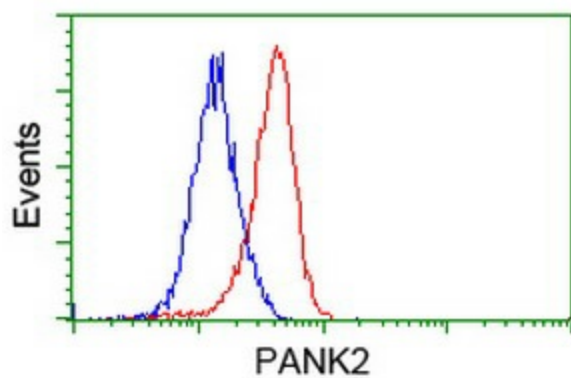
Metabolic pathways, Pantothenate and CoA biosynthesis

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PANK2 ([RC215676], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PANK2. Positive lysates [LY406998] (100ug) and [LC406998] (20ug) can be purchased separately from OriGene.



Anti-PANK2 mouse monoclonal antibody ([TA501419]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PANK2 ([RC215676]).



Flow cytometric Analysis of Jurkat cells, using anti-PANK2 antibody ([TA501419]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).