

# **Product datasheet for CF501355**

## OriGene Technologies, Inc.

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## PANK2 Mouse Monoclonal Antibody [Clone ID: OTI4B3]

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI4B3

**Applications:** IF, IHC, WB

Recommended Dilution: WB 1:2000, IHC 1:150, IF 1:100

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG2a

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human PANK2(NP\_705902) produced in HEK293T

cell.

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

**Reconstitution Method:** For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

**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: NP 705902

Entrez Gene 74450 MouseEntrez Gene 296167 RatEntrez Gene 80025 Human

Q9BZ23





#### Background:

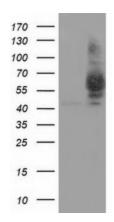
This gene encodes a protein belonging to the pantothenate kinase family and is the only member of that family to be expressed in mitochondria. Pantothenate kinase is a key regulatory enzyme in the biosynthesis of coenzyme A (CoA) in bacteria and mammalian cells. It catalyzes the first committed step 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

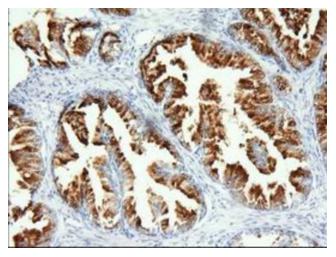
**Protein Families:** Druggable Genome

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

### **Product images:**

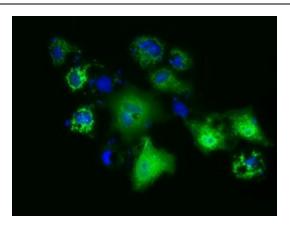


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PANK2 ([RC215676], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PANK2. Positive lysates [LY406998] (100ug) and [LC406998]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



Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-PANK2 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





Anti-PANK2 mouse monoclonal antibody ([TA501355]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PANK2 ([RC215676]).