PANK2 rabbit monoclonal antibody

Catalog # H00080025-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human PANK2 peptide using ARM Technology.
Immunogen	A synthetic peptide of human PANK2 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human PANK2 peptide by ELISA and mammalian transfected lysate by W estern Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — PANK2

Entrez GeneID	80025
GeneBank Accession#	PANK2
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