

PANK2 Polyclonal Antibody

Catalog number: 11001-1-AP

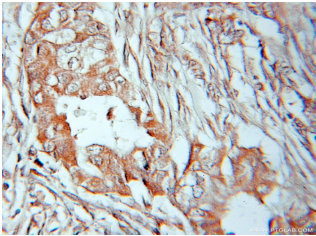
Size: 34 µg/150 µl

Source: Rabbit

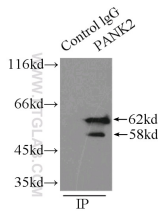
Isotype: IgG

Synonyms:

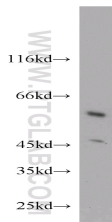
PANK2; C20orf48, FLJ17232,
HARP, hPank2, HSS, NBIA1,
PANK2, pantothenate kinase 2,
Pantothenic acid kinase 2,
PKAN



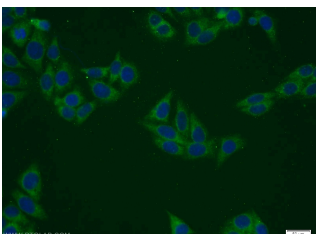
Immunohistochemical of paraffin-embedded human lung cancer using 11001-1-AP(PANK2 antibody) at dilution of 1:10 (under 10x lens)



IP Result of anti-PANK2 (IP:11001-1-AP, 3µg; Detection:11001-1-AP 1:800) with mouse brain tissue lysate 9500µg.



HeLa cells were subjected to SDS PAGE followed by western blot with 11001-1-AP(PANK2 antibody) at dilution of 1:100



Background

Pantothenate kinase 2 (PANK2) is an essential regulatory enzyme in coenzyme A biosynthesis. PANK2 mutations cause pantothenate kinase-associated neurodegeneration (PKAN), which leads to pigmentary retinopathy, progressive dystonia and other abnormalities(PMID:20603201). Pank2 protein is localized to mitochondria of neurons in human brain, distinguishing it from other pantothenate kinases that do not possess mitochondrial-targeting sequences(PMID:15659606). It has 4 isoforms produced by alternative splicing and alternative initiation.

Applications

Tested applications:	ELISA, WB, IHC, IP, IF
Species specificity:	Human,Mouse,Rat; other species not tested.
Calculated PANK2 MW:	63 kDa
Observed PANK2 MW:	59 kDa,48 kDa
Positive WB detected in	HeLa cells, HepG2 cells, human brain tissue, MCF7 cells, mouse brain tissue, mouse lung tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human lung cancer tissue, human liver tissue
Positive IF detected in	HepG2 cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:10-1:100 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1413
GenBank accession number:	BC009421
Gene ID (NCBI):	80025
Full name:	Pantothenate kinase 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

**Immunofluorescent analysis
of HepG2 cells using 11001-1-
AP(PANK2 Antibody) at
dilution of 1:25 and Alexa
Fluor 488-conjugated
AffiniPure Goat Anti-Rabbit
IgG(H+L)**