

For Research Use Only

PANK2 Polyclonal antibody

Catalog Number: 11001-1-AP



Basic Information

Catalog Number:

11001-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1413

GenBank Accession Number:

BC009421

GeneID (NCBI):

80025

UNIPROT ID:

Q9BZ23

Full Name:

pantothenate kinase 2

Calculated MW:

63 kDa

Observed MW:

63-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:10-1:100

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : K-562 cells, human brain tissue, MCF-7 cells, mouse brain tissue, mouse testis tissue, rat brain tissue, rat testis tissue

IP : mouse brain tissue,

IHC : human lung cancer tissue, human liver tissue

IF/ICC : HepG2 cells,

Background Information

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.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

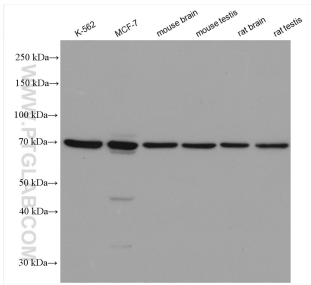
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

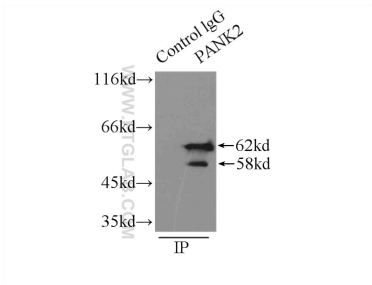
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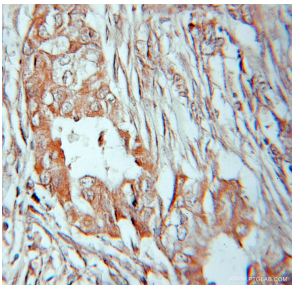
Selected Validation Data



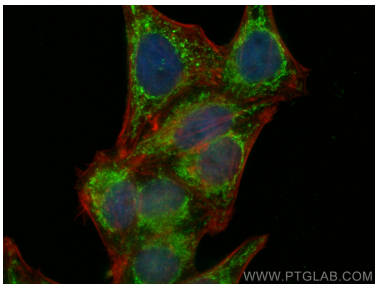
Various lysates were subjected to SDS PAGE followed by western blot with 11001-1-AP (PANK2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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



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



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PANK2 antibody (11001-1-AP) at dilution of 1:200 and Multi-rAb Coralite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).