

For Research Use Only

# PDK2 Polyclonal antibody

Catalog Number: 15647-1-AP

Featured Product

14 Publications



## Basic Information

**Catalog Number:**

15647-1-AP

**Size:**

260 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG8183

**GenBank Accession Number:**

BC005811

**GeneID (NCBI):**

5164

**UNIPROT ID:**

Q15119

**Full Name:**

pyruvate dehydrogenase kinase, isozyme 2

**Calculated MW:**

407 aa, 46 kDa

**Observed MW:**

46 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2400

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

IHC 1:100-1:600

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**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:** human heart tissue, HeLa cells, mouse skeletal muscle tissue, NCI-H1299 cells, rat heart tissue

**IP:** mouse skeletal muscle tissue,

**IHC:** mouse brain tissue, human brain tissue, human testis tissue, human placenta tissue, human kidney tissue, human heart tissue, human liver tissue, human skin tissue

## Background Information

PDK2([Pyruvate dehydrogenase (acetyl-transferring)] kinase isozyme 2, mitochondrial) is also named as PDHK2 and belongs to the PDK/BCKDK protein kinase family. PDK2 plays a key role in the regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. PDK2 is also involved in the regulation of cell proliferation and in resistance to apoptosis under oxidative stress. This protein has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jun-Kyu Byun	25346526	Hepatology	IHC
Yu Liang	31597953	Oncogene	IHC
Hunter C Jonus	31810115	Biomed Pharmacother	WB

## 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

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

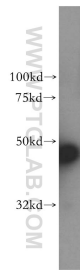
T: 4006900926

E: Proteintech-CN@ptglab.com

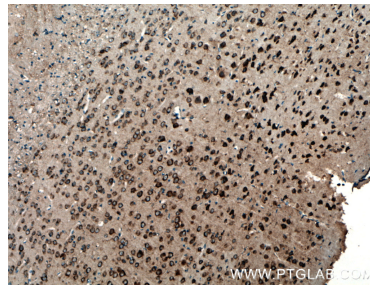
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

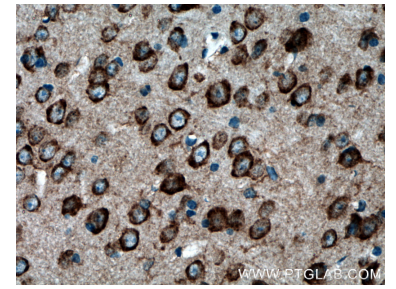
## Selected Validation Data



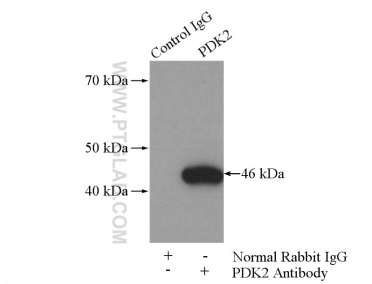
human heart tissue were subjected to SDS PAGE followed by western blot with 15647-1-AP (PDK2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15647-1-AP (PDK2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 15647-1-AP (PDK2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PDK2 (IP:15647-1-AP, 4ug; Detection:15647-1-AP 1:500) with mouse skeletal muscle tissue lysate 2000ug.