

For Research Use Only

# PDK4 Polyclonal antibody, PBS Only

Catalog Number: 12949-1-PBS

Featured Product



## Basic Information

### Catalog Number:

12949-1-PBS

### Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3629

### GenBank Accession Number:

BC040239

### GeneID (NCBI):

5166

### UNIPROT ID:

Q16654

### Full Name:

pyruvate dehydrogenase kinase, isozyme 4

### Calculated MW:

411 aa, 46 kDa

### Observed MW:

46 kDa

### Purification Method:

Antigen affinity purification

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse, rat

## Background Information

Pyruvate dehydrogenase kinase isoform4 (PDK4) is also named as PDHK4 and belongs to the PDK/BCKDK protein kinase family. It is upregulated by starvation in many tissues of the body during starvation. This causes inactivation of the pyruvate dehydrogenase complex which blocks pyruvate oxidation and conserves lactate and alanine for gluconeogenesis. Enhanced PDK4 expression may be caused by the increase in free fatty acids that occurs during starvation. Free fatty acids can activate peroxisome proliferator-activated receptor  $\alpha$  (PPAR $\alpha$ ), and activation of PPAR $\alpha$  can promote PDK4 expression (PMID: 11554740).

## Storage

### Storage:

Store at -80°C.

### Storage Buffer:

PBS only, pH7.3

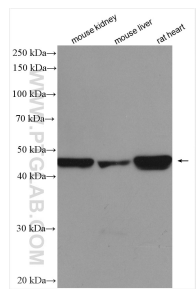
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12949-1-AP (PDK4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12949-1-PBS in a different storage buffer formulation.

