

## PDK2 polyclonal antibody

Catalog: BS91046

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Pyruvate dehydrogenase kinase family members (PDK1, 2, 3, 4) are serine kinases that catalyze the phosphorylation of the E1 $\alpha$  subunit of the pyruvate dehydrogenase complex (PDC). PDC activity is controlled through phosphorylation and dephosphorylation of the E1 $\alpha$  subunit, which leads to inactivation and reactivation, respectively. The core of PDC is composed of sixty dihydrolipoyl acetyltransferase (E2) subunits that bind directly to PDK2 and enhance PDK2 kinase activity. Upregulation of PDK isoenzymes occurs during starvation conditions, rerouting acetyl-CoA generation by facilitating fatty acid oxidation. PDKs contain five conserved regions and are mechanistically similar to bacterial His-kinases, in that both require Histidine residues for activity. In mammals, transcripts for PDK2 are ubiquitously expressed with high levels in heart and skeletal muscle and decreased levels in spleen and lung.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

46 kDa

### Swiss-Prot:

Q15119(Human)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:500

IHC:1:50-1:200

FC:1:50-1:100

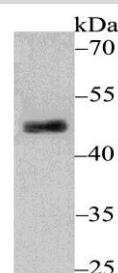
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

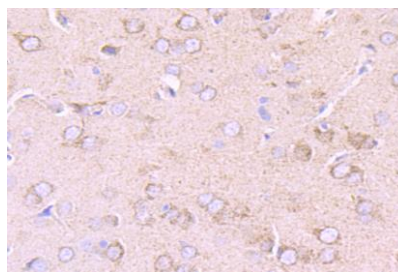
### Specificity:

PDK2 polyclonal antibody detects endogenous levels of PDK2 protein.

### DATA:



Western blot analysis of PDK2 on rat heart tissue lysate using anti-PDK2 antibody at 1/500 dilution.



Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PDK2 antibody. Counter stained with hematoxylin.

### Note:

For research use only, not for use in diagnostic procedure.

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