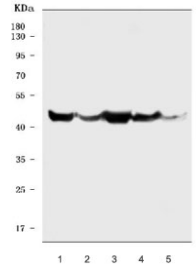
# PDK4 Antibody (R32250)

| Catalog No. | Formulation | Size |
|---|---|---|
| R32250 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity |
| **Buffer** | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| **UniProt** | Q16654 |
| **Localization** | Cytoplasmic |
| **Applications** | Western blot: 0.5-1ug/ml |
| **Limitations** | This PDK4 antibody is available for research use only. |




Western blot testing of 1) human HepG2, 2) human HeLa, 3) human A549, 4) rat skeletal muscle and 5) rat heart tissue lysate with PDK4 antibody. Expected molecular weight ~46 kDa.

## Description

Pyruvate dehydrogenase lipoamide kinase isozyme 4, mitochondrial is an enzyme that in humans is encoded by the PDK4 gene. This gene is a member of the PDK/BCKDK protein kinase family and encodes a mitochondrial protein with a histidine kinase domain. This protein is located in the matrix of the mitrochondria and inhibits the pyruvate dehydrogenase complex by phosphorylating one of its subunits, thereby contributing to the regulation of glucose metabolism. Expression of this gene is regulated by glucocorticoids, retinoic acid and insulin. In addition, PDK4 is increased in hibernation and

helps to decrease metabolism and conserve glucose by decreasing its conversion to acetyl-CoA, which enters the citric acid cycle and is converted to ATP.

## Application Notes

Optimal dilution of the PDK4 antibody should be determined by the researcher.

## Immunogen

Amino acids WYIQSLMDLVEFHEKSPDDQKALSDFVDTLIKVRN of human PDK4 were used as the immunogen for the PDK4 antibody.

## Storage

After reconstitution, the PDK4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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