

## PKD2 (Phospho Ser876) Rabbit pAb

CatalogNo: YP0341 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 96kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:40000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human PKD2 around the phosphorylation site of Ser876. AA range:829-878

## Specificity

Phospho-PKD2 (S876) Polyclonal Antibody detects endogenous levels of PKD2 protein only when phosphorylated at S876. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RISVL

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## Target Information

**Gene name** PRKD2

**Protein Name** Serine/threonine-protein kinase D2

Organism	Gene ID	UniProt ID
Human	<a href="#">25865;</a>	<a href="#">Q9BZL6;</a>
Mouse	<a href="#">101540;</a>	<a href="#">Q8BZ03;</a>
Rat	<a href="#">292658;</a>	<a href="#">Q5XIS9;</a>

### Cellular Localization

Cytoplasm . Cell membrane . Nucleus . Golgi apparatus , trans-Golgi network . Translocation to the cell membrane is required for kinase activation. Accumulates in the nucleus upon CK1-mediated phosphorylation after activation of G-protein-coupled receptors. Nuclear accumulation is regulated by blocking nuclear export of active PRKD2 rather than by increasing import. .

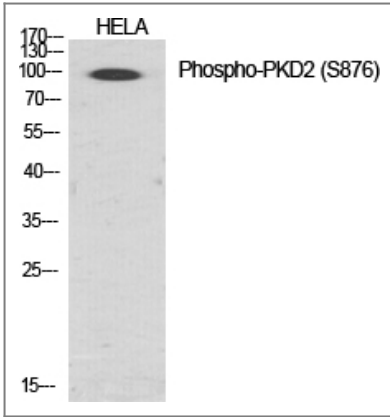
**Tissue specificity** Widely expressed.

### Function

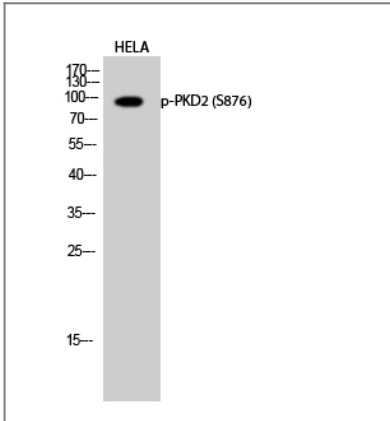
Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,enzyme regulation:Activated by diacylglycerol and phorbol esters. ,Function:Calcium-independent , phospholipid-dependent , serine- and threonine-specific protein kinase. ,PTM:Autophosphorylated. Phorbol esters stimulates autophosphorylation. Phosphorylation of Ser-876 correlates with the activation status of the kinase. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PKD subfamily. ,similarity:Contains 1 PH domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers. ,tissue specificity:Widely expressed. ,

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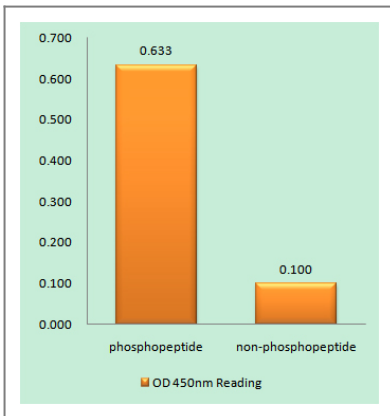
## Validation Data



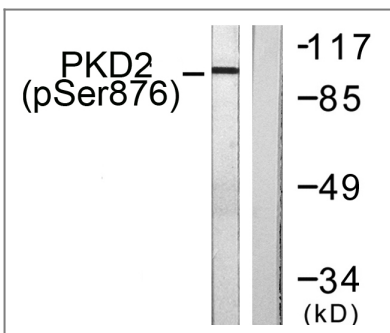
Western Blot analysis of various cells using Phospho-PKD2 (S876) Polyclonal Antibody diluted at 1:1000



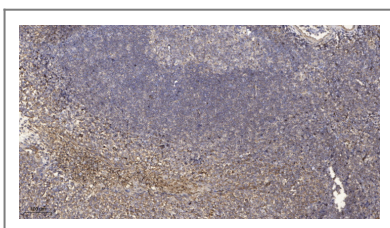
Western Blot analysis of HELA cells using Phospho-PKD2 (S876) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKD2 (Phospho-Ser876) Antibody



Western blot analysis of lysates from NIH/3T3 cells treated with PMA 250ng/ml 15', using PKD2 (Phospho-Ser876) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min).

## | Contact information

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Please scan the QR code to access additional product information:  
**PKD2 (Phospho Ser876) Rabbit pAb**

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