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## PKD1 (phospho Tyr463) Polyclonal Antibody

| Catalog No         | YP-Ab-14475  |
|--------------------|--|
| Isotype            | lgG  |
| Reactivity         | Human;Mouse;Rat  |
| Applications       | WB;IHC;IF;ELISA  |
| Gene Name          | PRKD1  |
| Protein Name       | Serine/threonine-protein kinase D1   |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human PKD1/PKC mu around the phosphorylation site of Tyr463. AA range:429-478  |
| Specificity        | Phospho-PKD1 (Y463) Polyclonal Antibody detects endogenous levels of PKD1 protein only when phosphorylated at Y463.  |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| Source             | Polyclonal, Rabbit,IgG   |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| Dilution           | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000 IF 1:50-200   |
| Concentration      | 1 mg/ml  |
| Purity             | ≥90%   |
| Storage Stability  | -20°C/1 year   |
| Synonyms           | PRKD1; PKD; PKD1; PRKCM; Serine/threonine-protein kinase D1; Protein kinase C mu type; Protein kinase D; nPKC-D1; nPKC-mu  |
| Observed Band      | 130kD  |
| Cell Pathway       | Cytoplasm . Cell membrane . Golgi apparatus, trans-Golgi network . Translocation to the cell membrane is required for kinase activation.   |
| Tissue Specificity | Placenta,Testis,   |
| Function           | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme<br>regulation:Activated by diacylglycerol and phorbol<br>esters.,function:Calcium-independent, phospholipid-dependent, serine- and<br>threonine-specific kinase involved in resistance to oxidative<br>stress.,PTM:Phosphorylation of Ser-738 and/or Ser-742 in activated PKD is<br>mediated by transphosphorylation (By similarity). Phosphorylation of Tyr-463<br>mediated by the Src/Abl pathway in response to oxidative stress activates the<br>kinase.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to<br>the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PKD<br>subfamily.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase<br>domain.,similarity:Contains 2 phorbol-ester/DAG-type zinc<br>fingers.,subunit:Interacts (via N-terminus) with ADAP1/CENTA1. Interacts with<br>Src., |



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| Background                | PRKD1 is a serine/threonine kinase that regulates a variety of cellular functions, including membrane receptor signaling, transport at the Golgi, protection from oxidative stress at the mitochondria, gene transcription, and regulation of cell shape, motility, and adhesion (summary by Eiseler et al., 2009 [PubMed 19329994]).[supplied by OMIM, Nov 2010], |
|---------------------------|--|
| matters needing attention | Avoid repeated freezing and thawing!   |
| Usage suggestions         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.  |



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## **Products Images**

