

PKD1 (phospho Tyr463) rabbit pAb**Cat#: orb769662 (Manual)**

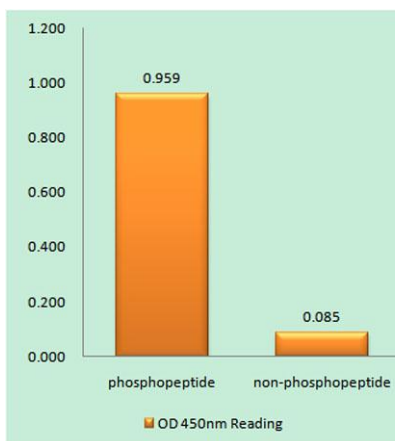
For research use only. Not intended for diagnostic use.

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| Product Name | PKD1 (phospho Tyr463) rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. |
| 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.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Serine/threonine-protein kinase D1 |
| Gene Name | PRKD1 |
| Cellular localization | Cytoplasm . Cell membrane . Golgi apparatus, trans-Golgi network . Translocation to the cell membrane is required for kinase activation. |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |

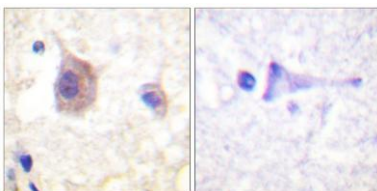
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|--------------------------------|---|
| Concentration | 1 mg/ml |
| Observed band | 130kD |
| Human Gene ID | 5587 |
| Human Swiss-Prot Number | Q15139 |
| Alternative Names | PRKD1; PKD; PKD1; PRKCM; Serine/threonine-protein kinase D1; Protein kinase C mu type; Protein kinase D; nPKC-D1; nPKC-mu |

Background

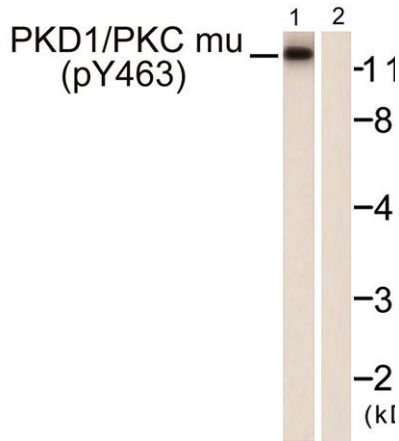
PRKD1 is a serine/threonine kinase that regulates a variety of cellular functions, including membrane receptor signaling, transport at the Golgi, protection from oxidative stress at the mitochondria, gene transcription, and regulation of cell shape, motility, and adhesion (summary by Eiseler et al., 2009 [PubMed 19329994]).[supplied by OMIM, Nov 2010],



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKD1/PKC mu (Phospho-Tyr463) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using PKD1/PKC mu (Phospho-Tyr463) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells, using PKD1/PKC mu (Phospho-Tyr463) Antibody. The lane on the right is blocked with the phospho peptide.