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# PRKD3 Rabbit pAb

Catalog # AP99317

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | O94806 |
| **Other Accession** | O94806 |
| **Reactivity** | Rat |
| **Predicted** | Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 100471 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human PRKD3 |
| **Epitope Specificity** | 345-550/890 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SIMILARITY** | Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PKD subfamily.Contains 1 PH domain.Contains 2 phorbol-ester/DAG-type zinc fingers.Contains 1 protein kinase domain. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | Protein kinase C (PKC) is a family of serine and threonine specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role. The protein encoded by this gene is one of the PKC family members. This kinase can be activated rapidly by the agonists of G protein coupled receptors. It resides in both cytoplasm and nucleus, and its nuclear accumulation is found to be dramatically enhanced in response to its activation. This kinase can also be activated after B cell antigen receptor (BCR) engagement, which requires intact phopholipase C gamma and the involvement of other PKC family members. |

## Additional Information

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| **Gene ID** | 23683 |
| **Other Names** | EPK2; PKC-NU; PKD3; PRKCN; nPKC-NU; 4930557O20Rik; 5730497N19Rik; Pkcnu; KPCD3_HUMAN; PRKD3; Protein kinase C nu type; Protein kinase EPK2; 2.7.11.13; KPCD3_MOUSE; protein kinase D3; protein kinase C, nu |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |

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| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | PRKD3 |
| **Synonyms** | EPK2, PRKCN |
| **Function** | Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress (By similarity). |
| **Cellular Location** | Cytoplasm. Membrane. Note=Translocation to the cell membrane is required for kinase activation |
| **Tissue Location** | Ubiquitous. |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.