

## Product datasheet for **CF805724**

### **PKC nu (PRKD3) Mouse Monoclonal Antibody [Clone ID: OTI4G6]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI4G6
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:500, IHC 1:150
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 300-508 of human PRKD3 (NP_005804) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	protein kinase D3
<b>Database Link:</b>	<a href="#">NP_005804</a> <a href="#">Entrez Gene 75292 Mouse</a> <a href="#">Entrez Gene 23683 Human</a> <a href="#">O94806</a>



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**Background:**

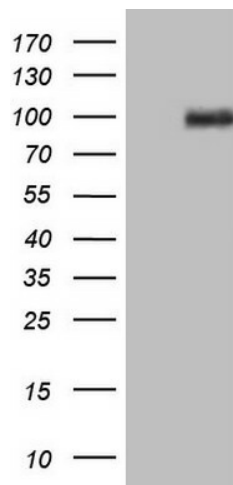
Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family 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 phospholipase C gamma and the involvement of other PKC family members. [provided by RefSeq, Jul 2008]

**Synonyms:**

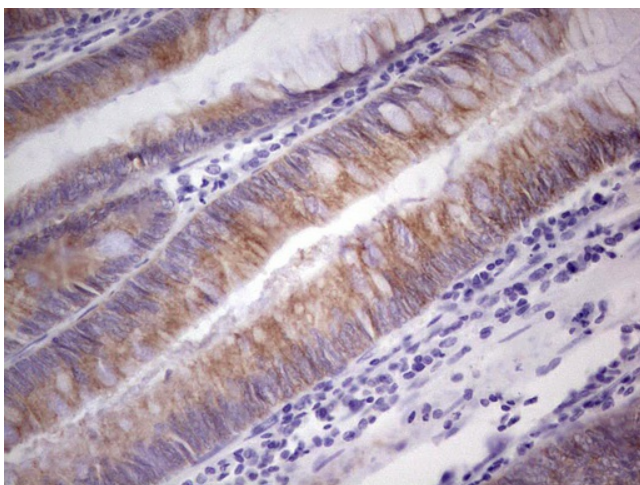
EPK2; nPKC-NU; PKC-NU; PKD3; PRKCN

**Protein Families:**

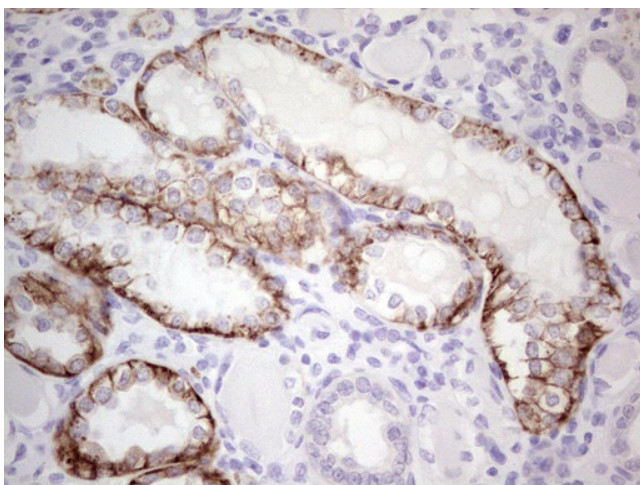
Druggable Genome, Protein Kinase

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PRKD3 (Cat# [RC221309], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRKD3 (Cat# [TA805724]).



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PRKD3 mouse monoclonal antibody. ([TA805724]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PRKD3 mouse monoclonal antibody. ([TA805724]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)