

## Product datasheet for **AP20992PU-N**

### PKC mu (PRKD1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000. <b>Immunohistochemistry on paraffin sections</b> 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of PKD1/PKC-mu protein. (region surrounding Val744)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 100 to 140 kDa
Gene Name:	protein kinase D1
Database Link:	<u><a href="#">Entrez Gene 18760 Mouse</a></u> <u><a href="#">Entrez Gene 85421 Rat</a></u> <u><a href="#">Entrez Gene 5587 Human</a></u> <u><a href="#">Q15139</a></u>



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**Background:**

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity was dependent on calcium and phospholipids. Diacylglycerols (DAG) and tumor promoting phorbol esters bind to and activate PKC. PKCs can be subdivided into at least two major classes including conventional (c) PKC isoforms (alpha, beta1, beta2 and gamma) and novel (n) PKC isoforms (delta, epsilon, zeta, eta and theta). Patterns of expression for each PKC isoform differs among tissues and PKC family members exhibit clear differences in their cofactor dependencies. For instance, the kinase activities of nPKC delta and epsilon are independent of Ca<sup>++</sup>. On the other hand, nPKC delta and epsilon, as well as all of the cPKC members, possess phorbol ester binding activities and kinase activities.

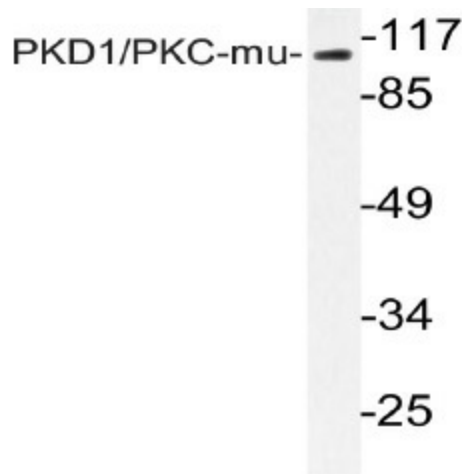
**Synonyms:**

Protein kinase D, PKC D1, PKD, PKD1, PRKCM, nPKC-D1, nPKC-mu, PKC mu, Protein kinase C mu type

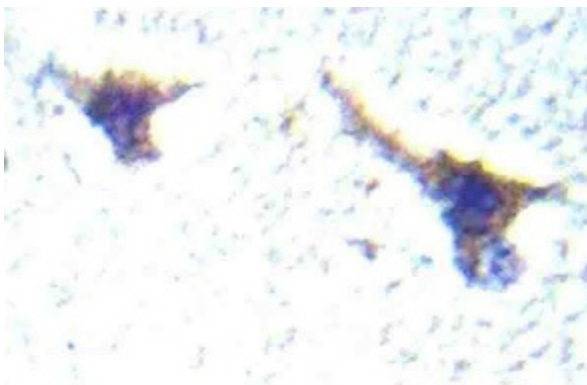
**Protein Families:**

Druggable Genome, Protein Kinase

**Product images:**



Western blot (WB) analyzes of PKD1/PKC-mu antibody (Cat.-No.: AP20992PU-N) in extracts from NIH/3T3 cells.



Immunohistochemistry (IHC) analyzes of PKD1/PKC-mu antibody (Cat.-No.: AP20992PU-N) in paraffin-embedded human brain tissue.