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Product datasheet for AP20901PU-N

PKC mu (PRKD1) pSer738 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	**Immunohistochemistry on paraffin sections**: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of PKD1/PKC-mu protein only when phosphorylated at Ser738.
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:	Entrez Gene 18760 MouseEntrez Gene 85421 RatEntrez Gene 5587 Human Q15139

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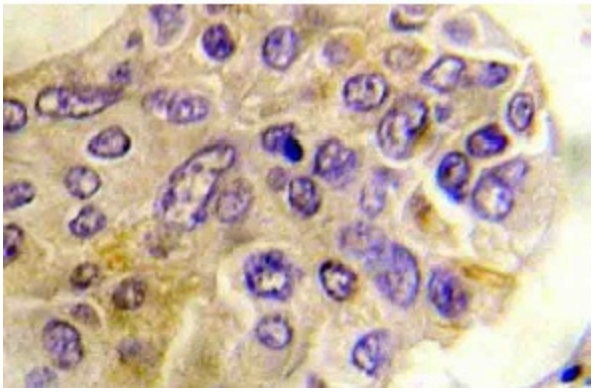
Background: Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity 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, betaI, betaII 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++. On the other hand, nPKC delta and epsilon, as well as all of the cPKC members, possess phorbol esterbinding 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:



Immunohistochemistry (IHC) analyzes of p-PKD1/PKC-mu antibody (Cat.-No.: AP20901PU-N) in paraffin-embedded human brain tissue.