OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP02655PU-N

PKC mu (PRKD1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/100-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human PKD/PKCμ around the phosphorylation site of serine 738 (E-K-S*p*-F-R).
Specificity:	This antibody detects endogenous levels of total PKD/PKCμ protein.
Formulation:	PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography using epitope-specific immunogen.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	protein kinase D1
Database Link:	Entrez Gene 5587 Human Q15139

View online »

Background: Protein Kinase C mu, is a ~140 kDa member of the novel group (nPKCs: sensitive to diacylglycerol, phosphatidylserine, and phorbol esters) of the PKC family of serine/threonine kinases that are involved in a wide range of physiological processes including mitogenesis, cell survival, metastasis and transcriptional regulation. PKC mu (also known as Protein Kinase D or PKD) is implicated in the regulation of multiple cellular processes including Golgi organization and membrane transport in epithelial cells. PKC mu is phosphorylated on serine 742 (serine 748 for the mouse sequence) in the activation loop in a PKC-dependent pathway, mainly by PKC eta and PKC epsilon. This is critical for its catalytic activity, substrate phosphorylation and role in activating the ERK1 MAP Kinase signaling cascade.

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

Product images:

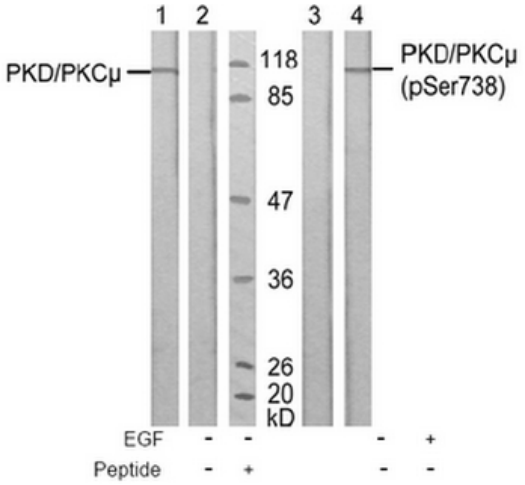

Figure 1. Western blot analysis of extract from A431 cells, untreated or treated with EGF (200 ng/ml, 10 min), using PKD/PKCu antibody (Lane 1 and 2) and PKD/PKCu (phospho-Ser738) antibody (Lane 3 and 4).

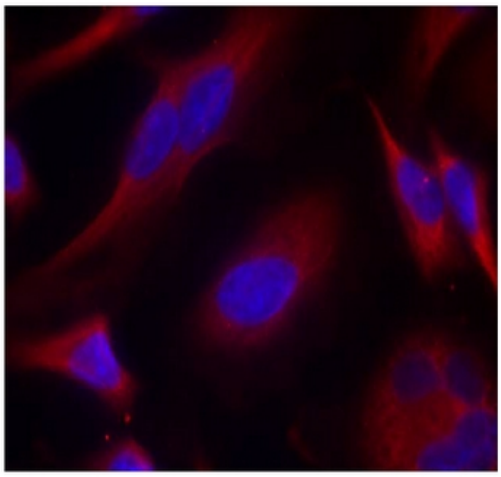

Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using PKD/PKCμ antibody (Red).