

Product datasheet for **AP06566PU-S**

PKC alpha (PRKCA) (pan) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 470-520 of Human PKC-pan.
Specificity:	This antibody detects endogenous levels of PKC α , β I, II, γ , δ , ϵ , η , ζ and θ isoforms. (region surrounding Thr495)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15mM Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunoge
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:	~75-88 kDa
Gene Name:	protein kinase C alpha
Database Link:	Entrez Gene 18750 Mouse Entrez Gene 24680 Rat Entrez Gene 5578 Human P17252



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Background:

Protein Kinase C (PKC) isoforms are serine/threonine kinases involved in signal transduction pathways that govern a wide range of physiological processes including differentiation, proliferation, gene expression, brain function, membrane transport and the organization of cytoskeletal and extracellular matrix proteins. Increasing evidence from studies using in vitro and in vivo systems points to PKC as a key regulator of critical cell cycle transitions, including cell cycle entry and exit and the G1 and G2 checkpoints. PKC-mediated control of these transitions can be negative or positive, depending on the timing of PKC activation during the cell cycle and on the specific PKC isozymes involved. There have been at least 12 different PKC isoforms identified in humans to date, including alpha, beta I, beta II, gamma, delta, epsilon, zeta, eta, theta, iota, lambda, and mu.

Synonyms:

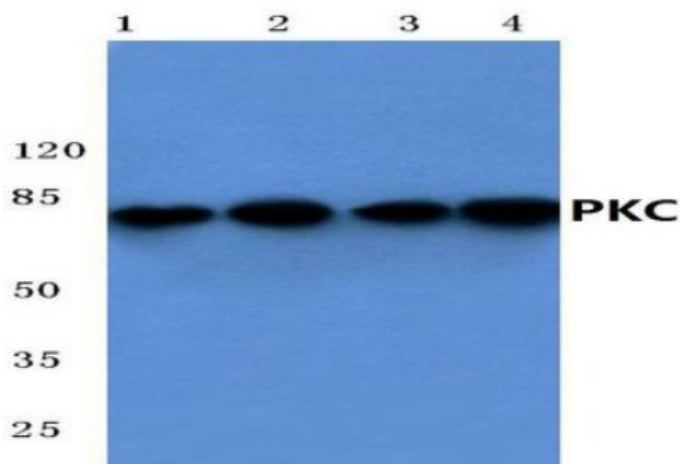
Protein kinase C

Protein Families:

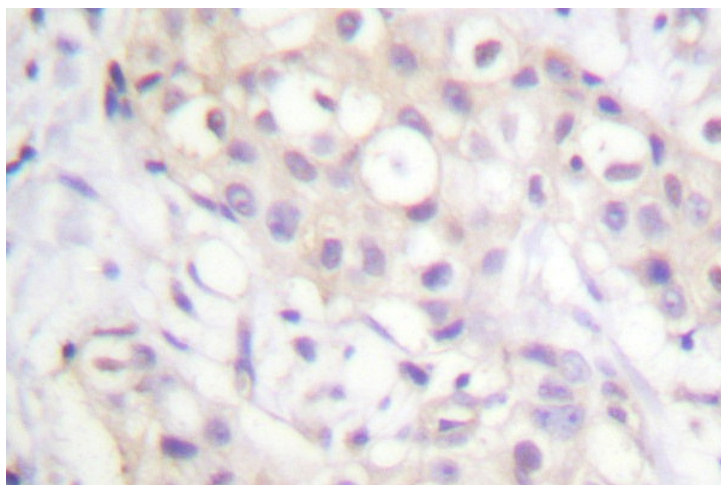
Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase

Protein Pathways:

Calcium signaling pathway, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Leukocyte transendothelial migration, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanogenesis, Natural killer cell mediated cytotoxicity, Non-small cell lung cancer, Pathogenic Escherichia coli infection, Pathways in cancer, Phosphatidylinositol signaling system, Tight junction, Vascular smooth muscle contraction, VEGF signaling pathway, Vibrio cholerae infection, Wnt signaling pathway

Product images:

Western blot analysis of pan PKC Antibody (9 in HeLa (Lane 1), A549 (Lane 2), NIH-3T3 (Lane 3) and PC12 (Lane 4) whole cell lysates at 1/500 dilution.



Immunohistochemistry analysis of pan PKC Antibody in paraffin-embedded human breast carcinoma tissue.