

PKC δ (phospho Ser645) rabbit pAb**Cat#: orb764377 (Manual)**

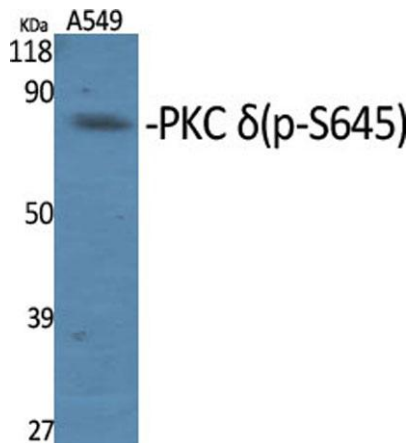
For research use only. Not intended for diagnostic use.

Product Name	PKC δ (phospho Ser645) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Monkey
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human PKC delta around the phosphorylation site of Ser645. AA range:612-661
Specificity	Phospho-PKC δ (S645) Polyclonal Antibody detects endogenous levels of PKC δ protein only when phosphorylated at S645.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Protein kinase C delta type
Gene Name	PRKCD
Cellular localization	Cytoplasm . Cytoplasm, perinuclear region . Nucleus . Cell membrane ; Peripheral membrane protein . Mitochondrion . Endomembrane system . Translocates to the mitochondria upon apoptotic stimulation. Upon activation, translocates to the plasma membrane followed by partial location to the endolysosomes (PubMed:17303575). .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

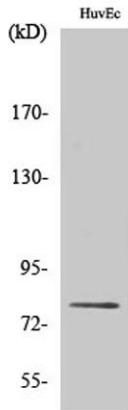
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	77kD
Human Gene ID	5580
Human Swiss-Prot Number	Q05655
Alternative Names	PRKCD; Protein kinase C delta type; Tyrosine-protein kinase PRKCD; nPKC-delta

Background

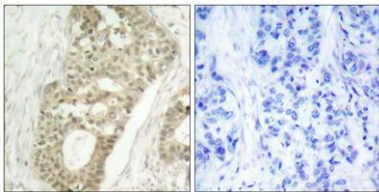
Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family 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 distinct roles in cells. The protein encoded by this gene is one of the PKC family members. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008],



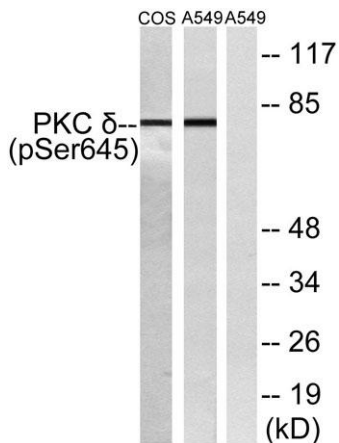
Western Blot analysis of various cells using Phospho-PKC δ (S645) Polyclonal Antibody diluted at 1:1000



Western Blot analysis of HuvEc cells using Phospho-PKC δ (S645) Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PKC delta (Phospho-Ser645) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells and A549 cells, using PKC delta (Phospho-Ser645) Antibody. The lane on the right is blocked with the phospho peptide.