

**PKC  $\zeta$  (phospho Thr410) rabbit pAb****Cat#: orb764270 (Manual)**

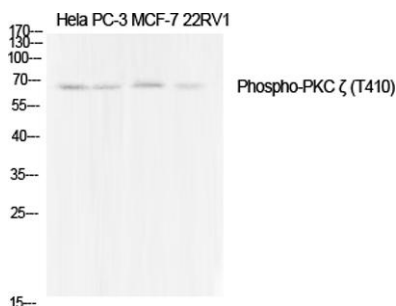
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	PKC $\zeta$ (phospho Thr410) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PKC zeta around the phosphorylation site of Thr410. AA range:376-425
<b>Specificity</b>	Phospho-PKC $\zeta$ (T410) Polyclonal Antibody detects endogenous levels of PKC $\zeta$ protein only when phosphorylated at T410.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Protein kinase C zeta type
<b>Gene Name</b>	PRKCZ
<b>Cellular localization</b>	Cytoplasm . Endosome . Cell junction . Membrane ; Peripheral membrane protein . In the retina, localizes in the terminals of the rod bipolar cells (By similarity). Associates with endosomes (PubMed:9566925). Presence of KRIT1, CDH5 and RAP1B is required for its localization to the cell junction (PubMed:7597083). Colocalizes with VAMP2 and WDFY2 in intracellular vesicles (PubMed:17313651). Transiently translocates to the membrane of CA1 hippocampal cells in response to the induction of long term potentiation (By similarity). .; [Isoform 2]: Cytoplasm .

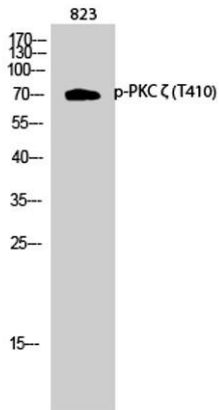
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	70kD
<b>Human Gene ID</b>	5590
<b>Human Swiss-Prot Number</b>	Q05513
<b>Alternative Names</b>	PRKCZ; PKC2; Protein kinase C zeta type; nPKC-zeta

**Background**

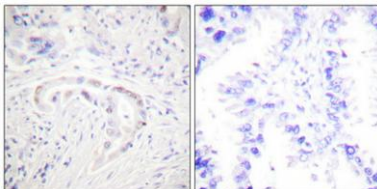
Protein kinase C (PKC) zeta is a member of the PKC family of serine/threonine kinases which are involved in a variety of cellular processes such as proliferation, differentiation and secretion. Unlike the classical PKC isoenzymes which are calcium-dependent, PKC zeta exhibits a kinase activity which is independent of calcium and diacylglycerol but not of phosphatidylserine. Furthermore, it is insensitive to typical PKC inhibitors and cannot be activated by phorbol ester. Unlike the classical PKC isoenzymes, it has only a single zinc finger module. These structural and biochemical properties indicate that the zeta subspecies is related to, but distinct from other isoenzymes of PKC. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008],



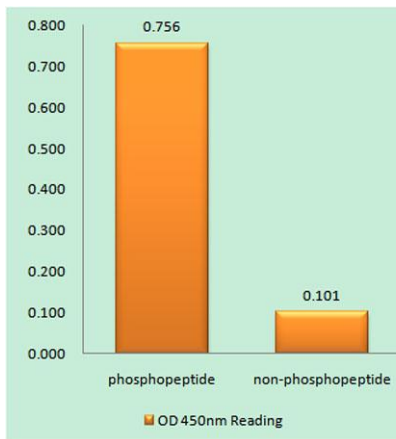
**Western Blot analysis of various cells using Phospho-PKC  $\zeta$  (T410) Polyclonal Antibody diluted at 1:1000**



**Western Blot analysis of 823 cells using Phospho-PKC  $\zeta$  (T410) Polyclonal Antibody diluted at 1:1000**



**Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.**



**Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKC zeta (Phospho-Thr410) Antibody**