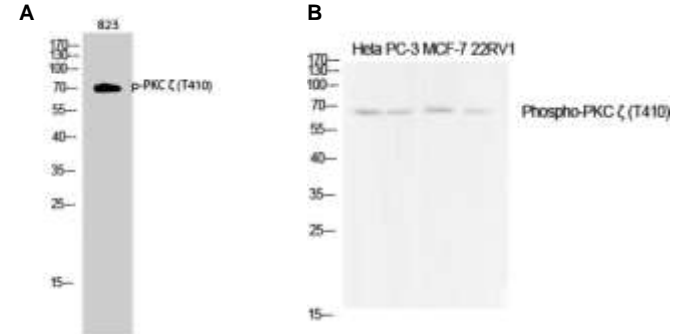


## Phospho-PKC $\zeta$ (Thr 410) Antibody

<b>CATALOG NO:</b>	A1130-100	100 $\mu$ l
<b>ALTERNATE NAMES:</b>	PRKCZ; PKC2; Protein kinase C zeta type; nPKC-zeta	
<b>AMOUNT:</b>	100 $\mu$ l (1 mg/ml)	
<b>IMMUNOGEN:</b>	Synthesized peptide derived from human PKC $\zeta$ around the phosphorylation site of Thr 410.	
<b>IMMUNOGEN REGION:</b>	350-430aa	
<b>HOST/ISOTYPE:</b>	Rabbit IgG	
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat	
<b>PURIFICATION:</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope specific immunogen.	
<b>MOL. WEIGHT</b>	70 kDa	
<b>SPECIFICITY:</b>	Phospho-PKC $\zeta$ (T410) Polyclonal Antibody detects endogenous levels of PKC $\zeta$ protein only when phosphorylated at T410.	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide	
<b>STORAGE CONDITIONS:</b>	Store at 4°C. For long term storage, aliquot and freeze at -20°C. Avoid repeated freeze/thaw cycles.	
<b>DESCRIPTION:</b>	Calcium- and diacylglycerol-independent serine/threonine-protein kinase that functions in phosphatidylinositol 3-kinase (PI3K) pathway and mitogen-activated protein (MAP) kinase cascade, and is involved in NF-kappa-B activation, mitogenic signaling, cell proliferation, cell polarity, inflammatory response and maintenance of long-term potentiation (LTP). Upon lipopolysaccharide (LPS) treatment in macrophages, or following mitogenic stimuli, functions downstream of PI3K to activate MAP2K1/MEK1-MAPK1/ERK2 signaling cascade independently of RAF1 activation. Required for insulin-dependent activation of AKT3, but may function as an adapter rather than a direct activator. Upon insulin treatment may act as a downstream effector of PI3K and contribute to the activation of translocation of the glucose transporter SLC2A4/GLUT4 and subsequent glucose transport in adipocytes.	
<b>APPLICATION:</b>	WB 1:500-1:2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:20000	

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.



**Fig A:** Western Blot of 823 cell lysates using Phospho-PKC  $\zeta$  (Thr410) antibody

**Fig B:** Western blot analysis using Phospho-PKC  $\zeta$  (Thr410) antibody in:

Lane 1: Hela cell lysate  
 Lane 2: PC-3 cell lysate  
 Lane 3: MCF-7 cell lysate  
 Lane 4: 22RV1 cell lysate

### RELATED PRODUCTS:

- Phospho-Bad Antibody (Cat. No. 3269-100)
- Bad Antibody (Cat. No. 3005-100)
- ABAD/HADH2 Antibody (Cat. No. 3246-100)
- Bim/Bod Antibody (Cat. No. 3124-100)
- ABAD/HADH2 Blocking Peptide (Cat. No. 3246BP-50)
- pGB BAD siRNA Vector Mix (Cat. No. 9512-60)

**FOR RESEARCH USE ONLY! Not to be used on humans.**