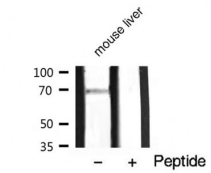
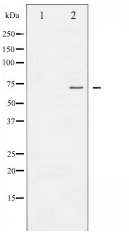
Phospho-PKC zeta (Thr410) Ab

Cat.#: AF3404	Concn.: 1mg/ml	Mol.Wt.: 70kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

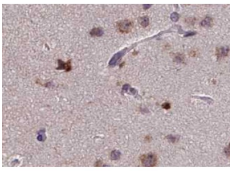
Application:	WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-PKC zeta (Thr410) Ab detects endogenous levels of PKC zeta only when phosphorylated at Threonine 410.
Immunogen:	A synthesized peptide derived from human PKC zeta around the phosphorylation site of Threonine 410.
Uniprot:	Q05513
Description:	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.
Subcellular Location:	Cytoplasm. Endosome. Cell junction. In the retina, localizes in the terminals of the rod bipolar cells (By similarity). Associates with endosomes. Presence of KRIT1, CDH5 and RAP1B is required for its localization to the cell junction.
Tissue Specificity:	Expressed in brain, and to a lesser extent in lung, kidney and testis.
Similarity:	The PB1 domain mediate mutually exclusive interactions with SQSTM1 and PARD6B.The C1 domain does not bind the diacylglycerol (DAG).Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of PKC zeta phosphorylation expression in mouse liver lysates,The lane on the right is treated with the antigen-specific peptide.

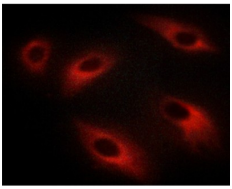


Western blot analysis of PKC zeta phosphorylation expression in PMA treated NIH-3T3 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3404 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

AF3404 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.



AF3404 staining C6 cells treated with λ phosphatase by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary Ab was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.