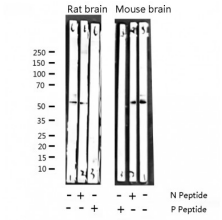
Affinity Biosciences
website:www.affbiotech.com
order:order@affbiotech.com

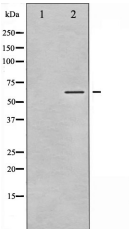
Phospho-CaMK2 alpha/ beta/ delta (Thr305) Ab

Cat.#: AF3492	Concn.: 1mg/ml	Mol.Wt.: 54kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

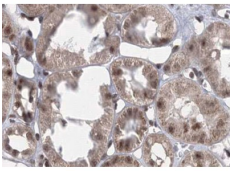
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-CaMK2 alpha/ beta/ delta (Thr305) Ab detects endogenous levels of CaMK2 alpha/ beta/ delta only when phosphorylated at Threonine 305.
Immunogen:	A synthesized peptide derived from human CaMK2 alpha/ beta/ delta around the phosphorylation site of Threonine 305.
Uniprot:	Q9UQM7/Q13554/Q13557
Description:	CaMK2-alpha a protein kinase of the CAMK2 family. A prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release.
Subcellular Location:	Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid rafts.
Similarity:	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK 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 Phospho-CaMK2 alpha/ beta/ delta (Thr305) expression in various lysates



Western blot analysis of CaMK2 alpha/ beta/ delta phosphorylation expression in NIH-3T3 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



AF3492 at 1/100 staining human kindey carcinoma 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.

AF3492 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.

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.