# Phospho-CaMK4 (Thr196/200) Ab

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| Cat.#: AF3460 | Concn.: 1mg/ml | Mol.Wt.: 60kDa |
| Size: 100ul,200ul | Source: Rabbit | Clonality: Polyclonal |

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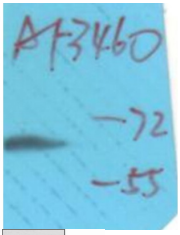
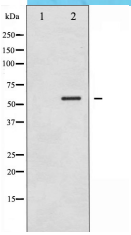
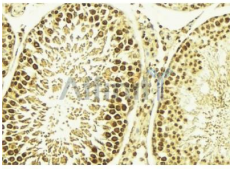
| Application: | WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500 |
| Reactivity: | Human,Mouse,Rat |
| Purification: | The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Specificity: | Phospho-CaMK4 (Thr196/200) Ab detects endogenous levels of CaMK4 only when phosphorylated at Threonine 196/200. |
| Immunogen: | A synthesized peptide derived from human CaMK4 around the phosphorylation site of Threonine 196/200. |
| Uniprot: | Q16566 |
| Description: | The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. |
| Subcellular Location: | Cytoplasm. Nucleus. Substantial localization in certain neuronal nuclei. In spermatids associated with chromatin and nuclear matrix. |
| Tissue Specificity: | Expressed in brain, thymus, CD4 T-cells, testis and epithelial ovarian cancer tissue. |
| Similarity: | The autoinhibitory domain overlaps with the calmodulin binding region and interacts in the inactive folded state with the catalytic domain as a pseudosubstrate.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. |



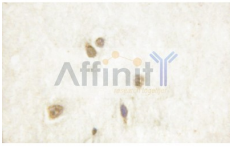

Western blot analysis of Phospho-CaMK4 (Thr196/200) Ab expression in H2O2 treated K562 cells lysates.The lane on the right is treated with the antigen-specific peptide.



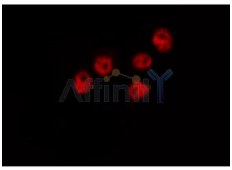

Western blot analysis of CaMK4 phosphorylation expression in H2O2 treated K562 whole cell lysates,The lane on the left is treated with the antigen-specific peptide.



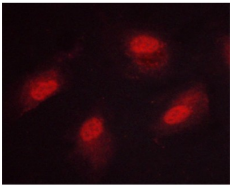
AF3460 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF3460 at 1/100 staining human brain tissues 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 48°C



AF3460 staining K562 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.



AF3460 staining  HeLa cells 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.