

# Phospho-CaMKII Polyclonal Antibody

**CATALOG #:** 3384-100

**AMOUNT:** 100 µg

**LOT #:** \_\_\_\_\_

**FORMULATION:**

100 µg (0.5 mg/ml) purified rabbit polyclonal anti-Phospho-CaMKII (Thr286) antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

**SPECIES REACTIVITY:** human, mouse, rat

**STORAGE CONDITIONS:**

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

**DESCRIPTION:**

CaMKII is a member of calcium/calmodulin-activated kinase, functioning in neural synaptic stimulation and T-cell receptor signaling. CaMKII has catalytic and regulatory domains. The binding of Ca<sup>++</sup>/calmodulin to its regulatory domain releases its autoinhibitory effect and activates the kinase. The activated CaMKII further autophosphorylates itself at Thr286 to render the kinase constitutively active.

**SPECIFICITY:**

The anti-Phospho-CaMKII antibody recognizes only the phosphorylated CaMKII (Thr286) in samples from human, mouse, and rat origins.

**APPLICATION:**

The antibody can be used for Western blotting at 1-2 µg/ml. However, the optimal concentrations should be determined individually.

**USAGE:** For Research Use Only. Not to be used in human.

**RELATED PRODUCTS:**

## Apoptosis Detection Kits &amp; Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

## Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

## Cell Proliferation &amp; Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

## Cell Damage &amp; Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

## Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

## Adipocyte &amp; Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

## Molecular Biology &amp; Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

## Growth Factors and Cytokines

## Monoclonal and Polyclonal Antibodies