

## CaMKK2 (Phospho Ser511) Rabbit pAb

CatalogNo: YP1285 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 65kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:1000-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human CaMKK2 (Ser511)

**Specificity** This antibody detects endogenous levels of Human Mouse Rat CaMKK2 (phospho-Ser511)

### Target Information

**Gene name** CAMKK2 CAMKKB KIAA0787

**Protein Name** Calcium/calmodulin-dependent protein kinase kinase 2

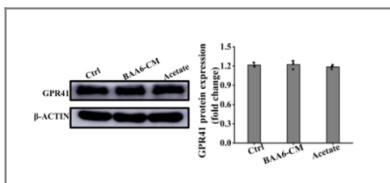
Organism	Gene ID	UniProt ID
Human	<a href="#">10645;</a>	<a href="#">Q96RR4;</a>
Mouse	<a href="#">207565;</a>	<a href="#">Q8C078;</a>
Rat	<a href="#">83506;</a>	<a href="#">Q88831;</a>

**Cellular Localization** Nucleus . Cytoplasm . Cell projection , neuron projection . Predominantly nuclear in unstimulated cells , relocalizes into cytoplasm and neurites after forskolin induction. .

**Tissue specificity** Ubiquitously expressed with higher levels in the brain. Intermediate levels are detected in spleen , prostate , thyroid and leukocytes. The lowest level is in lung.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Domain:The autoinhibitory domain overlaps with the calmodulin binding region and may be involved in intrasteric autoinhibition. ,Domain:The RP domain (arginine/proline-rich) is involved in the recognition of CAMK1 and CAMK4 as substrates. ,enzyme regulation:Activated by Ca (2+) /calmodulin. Binding of calmodulin may release intrasteric autoinhibition. Autophosphorylation does not alter activity or regulation by Ca (2+) /calmodulin. In part , activity is independent on Ca (2+) /calmodulin. ,Function:Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Isoform 1 , isoform 2 and isoform 3 phosphorylate CAMK1 and CAMK4. Isoform 3 phosphorylates CAMK1D. Isoform 4 , isoform 5 and isoform 6 lacking part of the calmodulin-binding domain are inactive. Seems to be involved in hippocampal activation of CREB1. ,PTM:Autophosphorylated. ,sequence Caution:Intron retention. ,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. ,similarity:Contains 1 protein kinase domain. ,subunit:Interacts with calmodulin. ,tissue specificity:Ubiquitously expressed with higher levels in the brain. Intermediate levels are detected in spleen , prostate , thyroid and leukocytes. The lowest level is in lung. ,

## Validation Data



Bifidobacterium animalis subsp. lactis A6 Enhances Fatty Acid  $\beta$ -Oxidation of Adipose Tissue to Ameliorate the Development of Obesity in Mice Nutrients. 2022 Jan;14 (3):598. WB Mouse epididymal adipose tissues

## Contact information

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