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 phosho 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

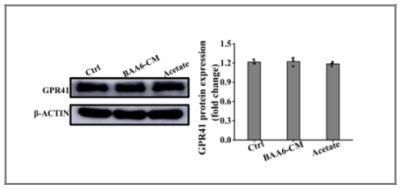
Organism	Gene ID	UniProt ID
Human	10645;	Q96RR4;
Mouse	207565;	Q8C078;
Rat	83506;	O88831;

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 CAMKI and CAMK4 as substrates.,enzyme regulation:Activated by Ca(2+)/calmodulin. Binding of calmodulin may releave 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 β-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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Please scan the QR code to access additional product information: **CaMKK2 (Phospho Ser511) Rabbit pAb**