CAMKK1/2 (Phospho Ser458) Rabbit pAb

CatalogNo: YP1723 **Orthogonal Validated**

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 56kD (Calculated)

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 1:500-2000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human CAMKK1/2 (Phospho-Ser458/495)
Specificity	This antibody detects endogenous CAMKK1 only when phosphorylated at ser458 and endogenous CAMKK2 only when phosphorylated at ser495. .The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):KRsFG

Target Information

Gene name CAMKK1 CAMKKA

Protein Name CAMKK1/2 (Phospho-Ser458/495)

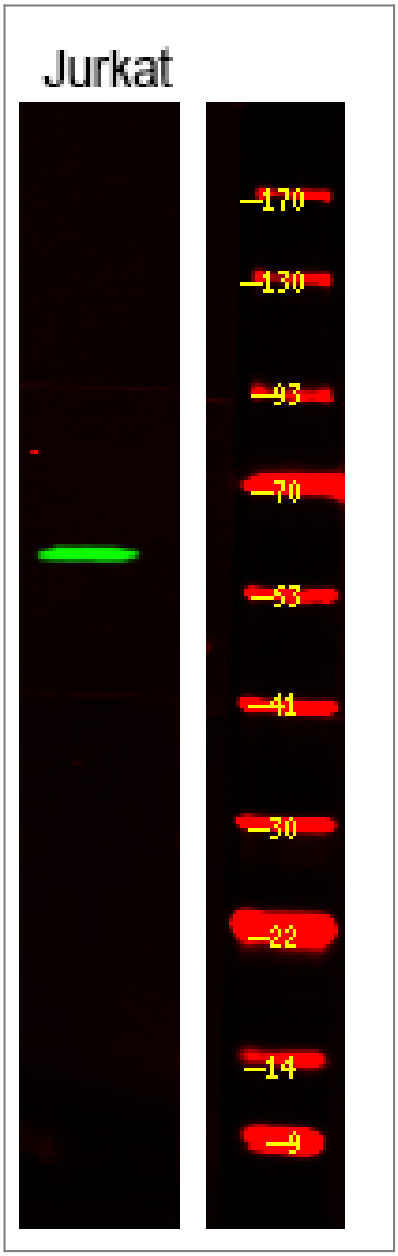
Organism	Gene ID	UniProt ID
Human	84254;	Q8N5S9;
Mouse	55984;	Q8VBY2;
Rat	60341;	P97756;

Cellular Localization Cytoplasm . Nucleus .

Tissue specificity Amygdala ,Brain ,

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. Partially inhibited upon phosphorylation by PRCAKA/PKA (By similarity) . May be regulated through phosphorylation by CAMK1 and CAMK4. ,Function:Calcium/calmodulin-dependent protein kinase that belongs to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1 , CAMK1D , CAMK1G and CAMK4. Involved in regulating cell apoptosis. Promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2-antagonist of cell death. ,PTM:Appears to be autophosphorylated in a Ca (2+) /calmodulin-dependent manner. Phosphorylated at multiple sites by PRCAKA/PKA. Phosphorylation of Ser-458 is blocked upon binding to Ca (2+) /calmodulin. In vitro , phosphorylated by CAMK1 and CAMK4. ,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. ,similarity:Contains 1 protein kinase domain. ,subunit:Interacts with CAMK4 and calmodulin. ,

Validation Data



Western Blot analysis of Jurkat cell, 2, LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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