CaMK2 (Phospho Thr286) Rabbit pAb

CatalogNo: YP1249

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 54kD (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 1:500-2000
ELISA(peptide)1:5000-20000

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized pospho peptide derived from human CaMK2 (Phospho-Thr286)
Specificity	This antibody detects endogenous pospho levels of human CaMK2 (Phospho-Thr286) .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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):QEtVD

Target Information

Gene name CAMK2D CAMKD

Protein Name CaMK2 (Phospho-Thr286)

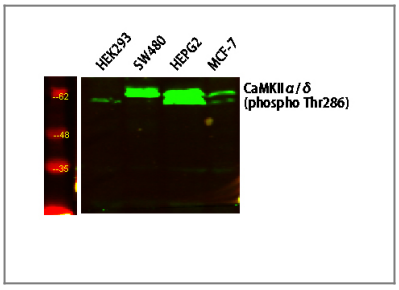
Organism	Gene ID	UniProt ID
Human	817;	Q9UQM7; Q13557;

Cellular Localization Cell junction , synapse . Cell junction , synapse , postsynaptic density . Cell projection , dendritic spine . Cell projection , dendrite . Postsynaptic lipid rafts. .

Tissue specificity Brain ,

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,enzyme regulation:Autophosphorylation of Thr-286 allows the kinase to switch from a calmodulin-dependent to a calmodulin-independent state. ,Function:CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. ,similarity:Contains 1 protein kinase domain. ,subcellular location:Postsynaptic lipid rafts. ,subunit:CAMK2 is composed of four different chains: alpha , beta , gamma , and delta. The different isoforms assemble into homo- or heteromultimeric holoenzymes composed of 8 to 12 subunits. Interacts with BAALC , MPDZ , SYN1 , CAMK2N2 and SYNGAP1. ,

Validation Data



Western blot analysis of various lysates, primary antibody was diluted at 1:1000, 4℃ over night, secondary antibody (cat: RS23920)was diluted at 1:10000, 37° 1hour.

Contact information

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