

CaMKII α/δ (Phospho Thr286) Rabbit pAb

CatalogNo: YP0042 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Pig

Applications

- WB, IHC, IF, 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 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human CaMK2 around the phosphorylation site of Thr286. AA range:256-305

Specificity

Phospho-CaMKII α / δ (T286) Polyclonal Antibody detects endogenous levels of CaMKII α / δ protein only when phosphorylated at T286. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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 CAMK2A/CAMK2D

Protein Name Calcium/calmodulin-dependent protein kinase type II subunit alpha/delta

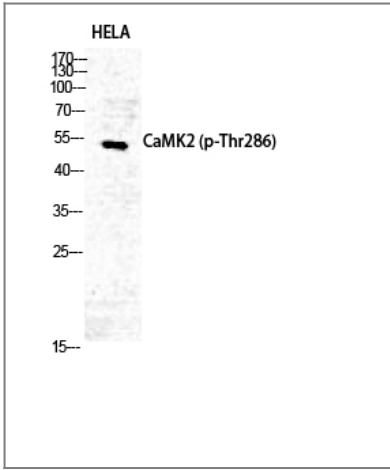
Organism	Gene ID	UniProt ID
Human	815 ; 817 ;	Q9UQM7 ; Q13557 ;
Mouse	12322 ; 108058 ;	
Rat	25400 ; 24246 ;	P11275 ; P15791 ;

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

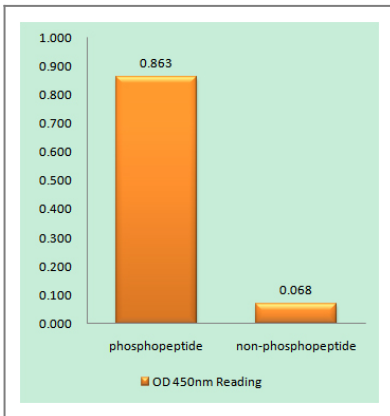
Tissue specificity Brain ,

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. .

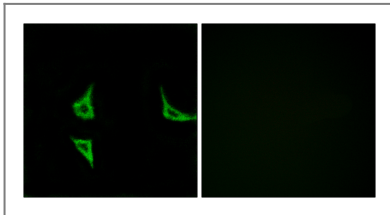
Validation Data



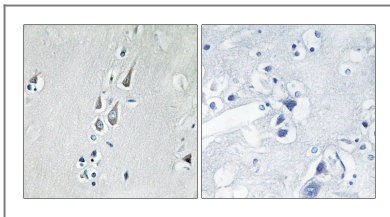
Western Blot analysis of HELA cells using Phospho-CaMKII α/δ (T286) Polyclonal Antibody diluted at 1:500



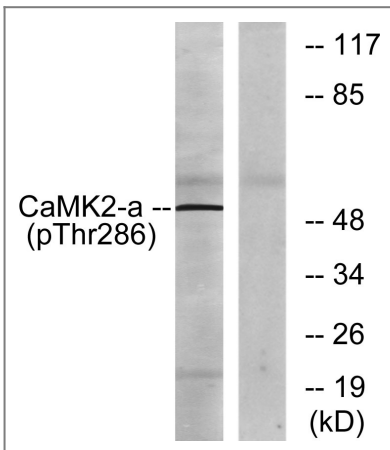
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CaMK2 (Phospho-Thr286) Antibody



Immunofluorescence analysis of COS7 cells, using CaMK2 (Phospho-Thr286) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human brain, using CaMK2 (Phospho-Thr286) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells, using CaMK2 (Phospho-Thr286) Antibody. The lane on the right is blocked with the phospho peptide.

| Contact information

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Please scan the QR code
to access additional
product information:
**CaMKII α / δ (Phospho
Thr286) Rabbit pAb**

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