CaMKII α/β (Phospho Thr286) (PT0908R) PT™ Rabbit mAb

CatalogNo: YM8677 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ICC/IF,ELISA

MW
- 54kD (Calculated)

54kD (Observed)

Isotype
- IgG, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

WB 1:2000-1:10000
ICC/IF 1:200-1:1000
ELISA 1:5000-1:20000

Basic Information

Clonality	Monoclonal
Clone Number	PT0908R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.

Specificity Phospho-CaMKIIα/β (T286) Antibody detects endogenous levels of CaMKIIα/β 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

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

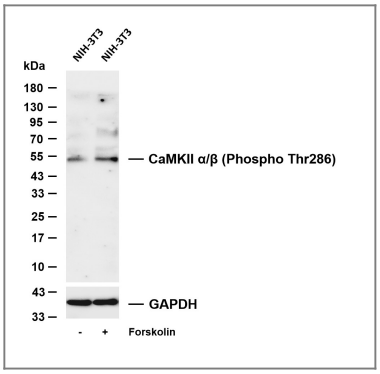
Organism	Gene ID	UniProt ID
Human	815; 816;	Q9UQM7; Q13554;

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



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-CaMKII α/β (Phospho Thr286) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: NIH-3T3 was treated with Forskolin (10uM) for 1 hour Predicted band size: 54kDa Observed band size: 54kDa

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
CaMKII α/β (Phospho Thr286) (PT0908R) PT™ Rabbit mAb

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