

CaMKII β / γ / δ (Phospho Thr287) (4H2) Mouse mAb

CatalogNo: YP1880

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- IHC, IF

MW

- 50kD (Observed)

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

IHC 1:100-200

IF 1:50-200

Basic Information

Clonality Monoclonal

Clone Number 4H2

Immunogen Information

Immunogen Synthetic Peptide of CaMKII β / γ / δ (Phospho Thr287)

Specificity CaMKII β / γ / δ (Phospho Thr287) protein detects endogenous levels of CaMKII β / γ / δ (Phospho Thr287)

Target Information

Gene name CAMK2B

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

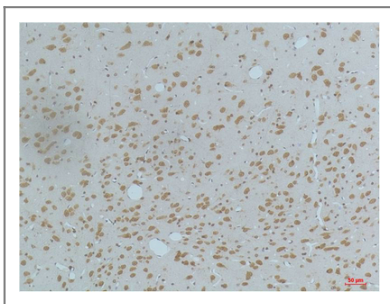
Organism	Gene ID	UniProt ID
Human	816 ; 817 ; 818 ;	Q13554 ; Q13555 ; Q13557 ;
Mouse	12323 ; 12325 ; 108058 ;	
Rat	24245 ; 171140 ; 24246 ;	P08413 ; P11730 ; P15791 ;

Cellular Localization Cytoplasm, cytoskeleton . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Sarcoplasmic reticulum membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, synapse . In slow-twitch muscle, evenly distributed between longitudinal SR and junctional SR.

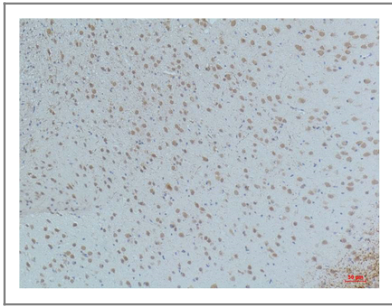
Tissue specificity Widely expressed. Expressed in adult and fetal brain. Expression is slightly lower in fetal brain. Expressed in skeletal muscle.

Function Alternative products:The variable region of the CAMK2B protein is encoded by at least 7 exons (V1 to V7). Alternative splicing within this region gives rise to CAMK2B isoforms,Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Autophosphorylation of CAMK2 plays an important role in the regulation of the kinase activity.,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.,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 SYNGAP1 and CAMK2N2 (By similarity). Interacts with MPDZ.,tissue specificity:Widely expressed. Expressed in adult and fetal brain. Expression is slightly lower in fetal brain.,

Validation Data



Immunohistochemical analysis of paraffin-embedded Rat Brain Tissue using CaMKII β / γ / δ (Phospho Thr287) (mAb diluted at 1:200).



Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using CaMKII β / γ / δ (Phospho Thr287) Mouse mAb diluted at 1:200.

| 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 β / γ / δ
(Phospho Thr287)
(4H2) Mouse mAb**

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