CaMKIIα/β/δ (Phospho Thr305) Rabbit pAb

CatalogNo: YP0279 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 54kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:5000
IF 1:50-200

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.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human CaMK2 alpha/beta/delta around the phosphorylation site of Thr305. AA range:271-320

Specificity Phospho-CaMKIIα/β/δ (T305) Polyclonal Antibody detects endogenous levels of CaMKIIα/β/δ protein only when phosphorylated at T305.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):ILtTM

Target Information

Gene name CAMK2A

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

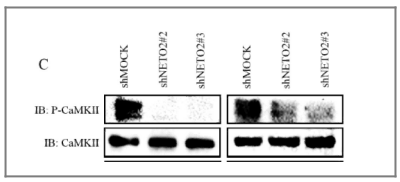
Organism	Gene ID	UniProt ID
Human	815; 816; 817;	Q9UQM7; Q13554; Q13557;
Mouse	12322; 12323; 108058;	
Rat	25400; 24245; 24246;	P11275; P08413; P15791;

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

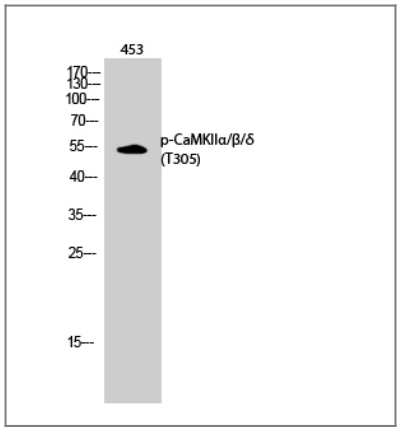
Tissue specificity Brain,

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.,

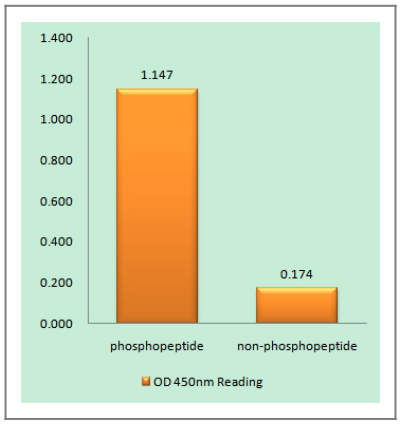
Validation Data



NETO2 promotes melanoma progression via activation of the Ca2+/CaMKII signaling pathway Frontiers of Medicine Cong Peng WB Human SK-Mel-5 cell,SK-Mel-28 cell, WM35 cell



Western Blot analysis of 453 cells using Phospho-CaMKIIα/β/δ (T305) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CaMK2 alpha/beta/delta (Phospho-Thr305) Antibody

Contact information

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Please scan the QR code to access additional product information:
CaMKIIα/β/δ (Phospho Thr305) Rabbit pAb