

Phospho-CaMKII beta/gamma/delta (Thr287) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Peptide sequence around phosphorylation site of Threonine 287 (Q-E-T(p)-V-E) derived from Human CaMK2- beta/ gamma/ delta
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.4, with 50% glycerol
Contains	0.02% sodium azide
Storage conditions	-20°C
RRID	AB_2554441

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	9 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

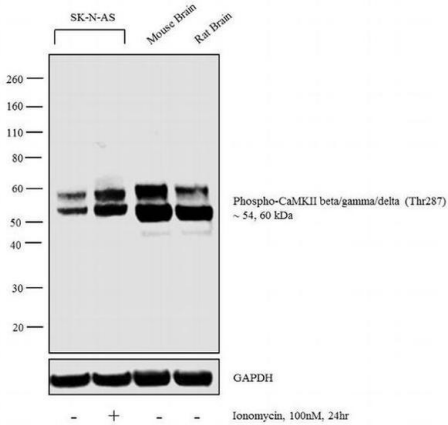
Product Specific Information

A suggested positive control for Western blot is rat brain cells.

Product Images For Phospho-CaMKII beta/gamma/delta (Thr287) Polyclonal Antibody

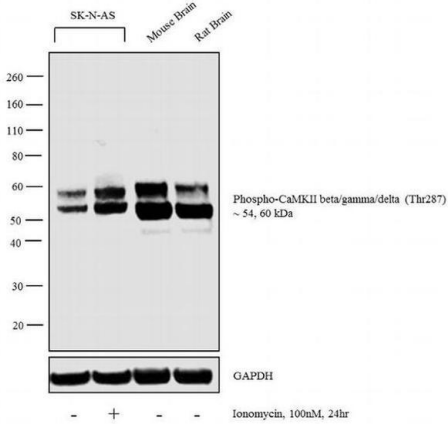
Phospho-CaMKII beta/gamma/delta (Thr287) Antibody (PA5-37833)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis of Phospho-CaMKII beta/gamma/delta (Thr287) using Phospho-CaMKII beta/gamma/delta (Thr287) Polyclonal Antibody (Product # PA5-37833) shows increased expression of proteins phosphorylated at the threonine residue in SK-N-AS cell line upon Ionomycin treatment. {TM}



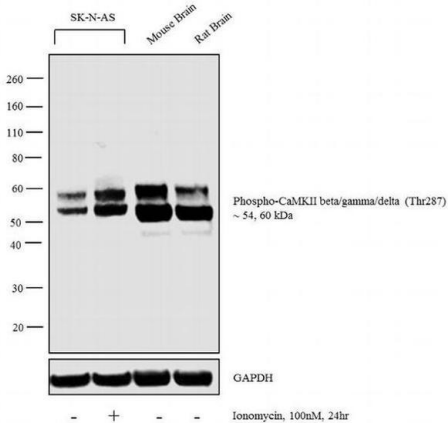
Phospho-CaMKII beta/gamma/delta (Thr287) Antibody (PA5-37833) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of SK-N-AS (Lane 1), SK-N-AS treated with Ionomycin (100 nM, for 24 hr) (Lane 2), tissue extracts of Mouse Brain (Lane 3) and Rat Brain (Lane 4). The blot was probed with Phospho-CaMKII beta/gamma/delta (Thr287) Polyclonal Antibody (Product # PA5-37833, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). 54, 60 kDa band corresponding to Phospho-CaMKII beta/gamma/delta (Thr287) was observed across cell line and tissues tested. It was also enhanced upon Ionomycin treatment in SK-N-AS cell line.



Phospho-CaMKII beta/gamma/delta (Thr287) Antibody (PA5-37833) in WB

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Western Blot (9)

<p>Oxidative medicine and cellular longevity</p> <p>TRPV1 Modulator Ameliorates Alzheimer-Like Amyloid- Neuropathology via Akt/Gsk3-Mediated Nrf2 Activation in the Neuro-2a/APP Cell Model.</p> <p>"PA5-37833 was used in Sample Preparation to investigate the neuroprotective potential of PcActx peptide and its underlying mechanism of action, in an N2a/APP cell model of AD. Both Western blot and RT-PCR analysis revealed that PcActx peptide markedly inhibited the production of amyloid-related proteins and the expression of BACE1, PSEN1, and PSEN2."</p> <p>Authors: Wang X,Bian Y,Wong CTT,Lu JH,Lee SM</p>	<p>Year 2022</p> <p>Species Human</p>
<p>Molecules (Basel, Switzerland)</p> <p>Synergistic Anticancer Effect of a Combination of Berbamine and Arcyriaflavin A against Glioblastoma Stem-like Cells.</p> <p>"PA5-37833 was used in Western Blotting to demonstrate a novel combination therapy involving berbamine and ArcA effectively eradicating GSCs."</p> <p>Authors: Han JM,Jung HJ</p>	<p>Year 2022</p> <p>Species Human</p>

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Miscellaneous PubMed (1)

<p>Molecular cell</p> <p>Actionable Cytopathogenic Host Responses of Human Alveolar Type 2 Cells to SARS-CoV-2.</p> <p>"PA5-37833 was used in Functional network inference to perform a quantitative phosphoproteomic survey of induced pluripotent stem cell-derived AT2s infected with SARS-CoV-2 at air-liquid interface, to understand the mechanisms driving infection and pathology."</p> <p>Authors: Hekman RM,Hume AJ,Goel RK,Abo KM,Huang J,Blum BC,Werder RB,Suder EL,Paul I,Phanse S,Youssef A, Alysandratos KD,Padhorny D,Ojha S,Mora-Martin A,Kretov D,Ash PEA,Verma M,Zhao J,Patten JJ,Villacorta-Martin C, Bolzan D,Perea-Resa C,Bullitt E,Hinds A,Tilston-Lunel A,Varelas X,Farhangmehr S,Braunschweig U,Kwan JH, McComb M,Basu A,Saeed M,Perissi V,Burks EJ,Layne MD,Connor JH,Davey R,Cheng JX,Wolozin BL,Blencowe BJ, Wuchty S,Lyons SM,Kozakov D,Cifuentes D,Blower M,Kotton DN,Wilson AA,Mühlberger E,Emili A</p>	<p>Year 2020</p> <p>Species Human</p>
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