



CaMKII delta Polyclonal Antibody

Product Details		
Size	100 μL	
Species Reactivity	Human, Mouse, Rabbit, Rat	
Published Species	Human, Mouse	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 249 and 445 (Q13557) of CaMKII delta	
Form	Liquid	
Concentration	0.62 mg/mL	
Purification	Antigen affinity chromatography	
Storage buffer	PBS, pH 7, with 20% glycerol	
Contains	0.025% ProClin 300	
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	
RRID	AB_11153337	

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:50,000	5 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	1:100-1:500	1 Publication

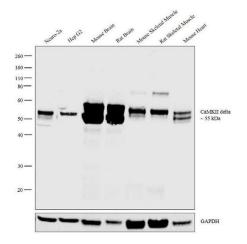
Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, A549, H1299, HCT116, mouse brain, rat brain.

Predicted reactivity: Mouse (100%), Rat (80%), Xenopus laevis (94%), Pig (100%), Rabbit (99%), Chicken (98%), Bovine (92%).

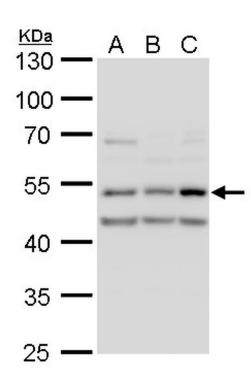
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For CaMKII delta Polyclonal Antibody



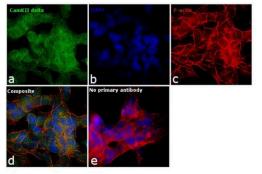
CaMKII delta Antibody (PA5-22168) in WB

Western blot analysis was performed on whole cell extracts (30 μg lysate) of Neuro-2a (Lane 1), Hep G2 (Lane 2), tissue extracts of Mouse Brain (Lane 3), Rat Brain (Lane 4), Mouse Skeletal Muscle (Lane 5), Rat Skeletal Muscle (Lane 6) and Mouse Heart (Lane 7). The blot was probed with Anti-CaMKII delta Polyclonal Antibody (Product # PA5-22168, 1:500 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) SuperclonalTM Secondary Antibody, HRP conjugate (Product # A27036, 0.25 μg/mL, 1:4,000 dilution). A 55 kDa band corresponding to CaMKII delta was observed across the cell lines and tissues tested.



CaMKII delta Antibody (PA5-22168) in WB

CaMK2D antibody detects CaMK2D protein by western blot analysis. A. 30 µg A549 whole cell lysate/extract. B. 30 µg H1299 whole cell lysate/extract. C. 30 µg HCT116 whole cell lysate/extract.10% SDS-PAGE. CaMK2D antibody CaMKII delta Polyclonal Antibody (Product # PA5-22168) dilution: 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



CaMKII delta Antibody (PA5-22168) in ICC/IF

Immunofluorescence analysis of CamKII delta was performed using 70% confluent log phase SH-SY5Y cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with CaMKII delta Polyclonal Antibody (Product # PA5-22168) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1: 300). Panel d represents the merged image showing predominant cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

□ 6 References

Western Blot (5)

Nature communications

Detrimental proarrhythmogenic interaction of Ca²⁺/calmodulin-dependent protein kinase II and Na_V1.8 in heart failure.

"PA5-22168 was used in Western Blot to elucidate the role of the sodium channel isoform NaV1.8 for CaMKIIc-dependent proarrhythmia."

Authors: Bengel P,Dybkova N,Tirilomis P,Ahmad S,Hartmann N,A Mohamed B,Krekeler MC,Maurer W,Pabel S,Trum M, Mustroph J,Gummert J,Milting H,Wagner S,Ljubojevic-Holzer S,Toischer K,Maier LS,Hasenfuss G,Streckfuss-Bömeke K,Sossalla S

Year 2021

Species Human Mouse

Journal of molecular medicine (Berlin, Germany)

Long-term effects of empagliflozin on excitation-contraction-coupling in human induced pluripotent stem cell cardiomyocytes.

"PA5-22168 was used in Western Blotting to investigate the long-term effects (up to 2 months) of empagliflozin on excitation-contraction (EC)-coupling in human cardiomyocytes derived from induced pluripotent stem cells (iPSC-CM) in a blinded manner."

Authors: Pabel S,Reetz F,Dybkova N,Shomroni O,Salinas G,Mustroph J,Hammer KP,Hasenfuss G,Hamdani N,Maier LS,Streckfuss-Bömeke K,Sossalla S

Year 2020

Species Human

Dilution 1:5000

View more WB references on thermofisher.com

Immunoprecipitation (1)

Nature communications

Detrimental proarrhythmogenic interaction of Ca²⁺/calmodulin-dependent protein kinase II and Na_V1.8 in heart failure.

"PA5-22168 was used in Western Blot to elucidate the role of the sodium channel isoform NaV1.8 for CaMKIIc-dependent proarrhythmia."

Authors: Bengel P,Dybkova N,Tirilomis P,Ahmad S,Hartmann N,A Mohamed B,Krekeler MC,Maurer W,Pabel S,Trum M, Mustroph J,Gummert J,Milting H,Wagner S,Ljubojevic-Holzer S,Toischer K,Maier LS,Hasenfuss G,Streckfuss-Bömeke K,Sossalla S

Year 2021

Species Human Mouse

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization, Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package interaction?) No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid not not herein is valid not herein is val