

CaMKII alpha Polyclonal Antibody

Product Details	
Size	400 µL
Species Reactivity	Human
Published Species	Rat, Mouse
Host/Isotype	Rabbit / Ig
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	KLH conjugated synthetic peptide between 344-371 amino acids from the C-terminal region of human CAMK2A
Form	Liquid
Concentration	2 mg/mL
Purification	Size-exclusion - Dialysis, Ammonium sulfate precipitation
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2070314

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:50	1 Publication
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Immunoprecipitation (IP)	-	2 Publications

Product Specific Information

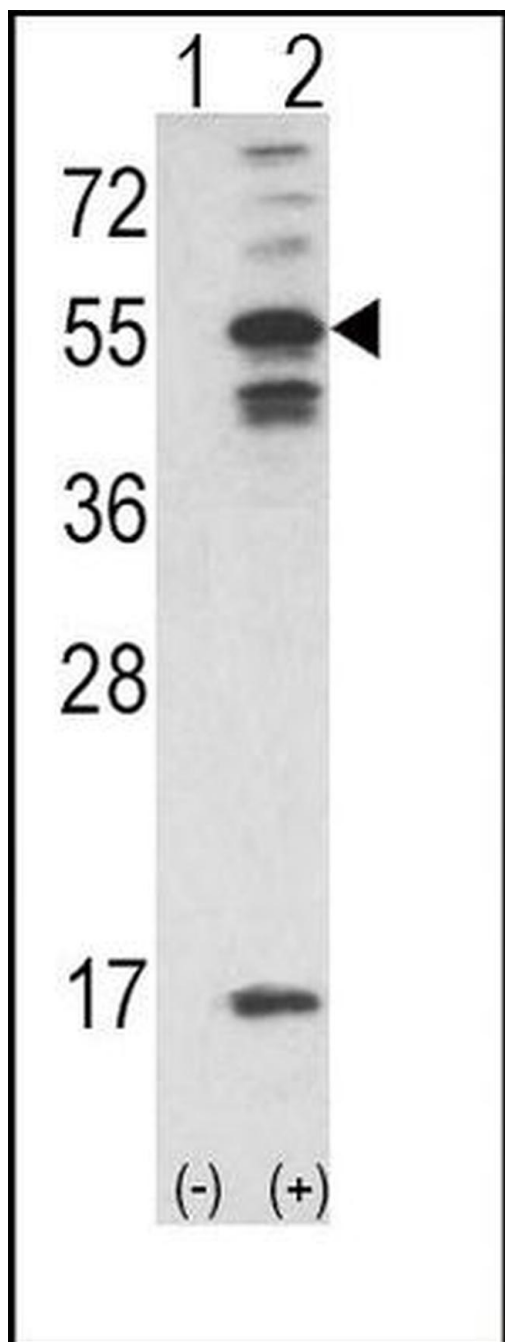
This antibody is predicted to react with mouse and rat based on sequence homology.

Product Images For CaMKII alpha Polyclonal Antibody



CaMKII alpha Antibody (PA5-14315) in IHC (P)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded human brain tissue using a CAMK2A polyclonal antibody (Product # PA5-14315), followed by HRP-conjugated secondary antibody and DAB staining.

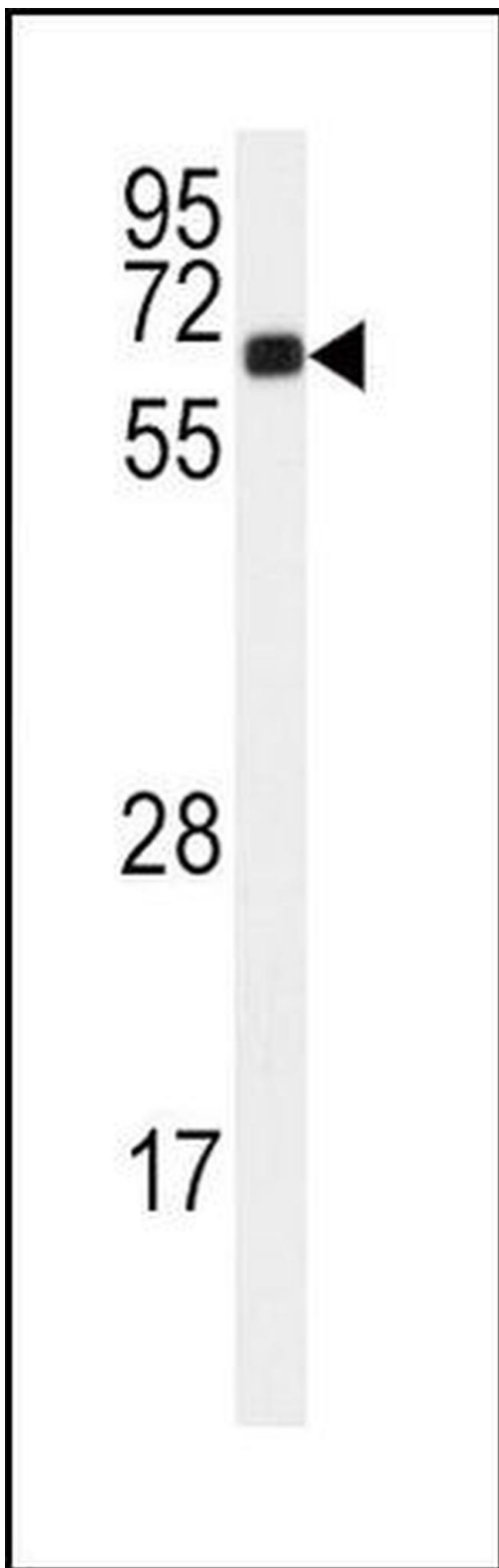


CaMKII alpha Antibody (PA5-14315) in WB

Western blot analysis of CAMK2A (arrow) using a CAMK2A polyclonal antibody (Product # PA5-14315) in 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected with the CAMK2A gene (Lane 2).

CaMKII alpha Antibody (PA5-14315) in WB

Western blot analysis using a CAMK2A polyclonal antibody (Product # PA5-14315) in 293 cell lysates (35 µg per lane).



[View more figures on thermofisher.com](https://thermofisher.com)

Western Blot (1)

Disease models & mechanisms	Year 2018
Correction of cognitive deficits in mouse models of Down syndrome by a pharmacological inhibitor of DYRK1A.	
"Published figure using CaMKII alpha polyclonal antibody (Product # PA5-14315) in Immunoprecipitation"	
Authors: Nguyen TL,Duchon A,Manousopoulou A,Loaëc N,Villiers B,Pani G,Karatas M,Mechling AE,Harsan LA, Limanton E,Bazureau JP,Carreaux F,Garbis SD,Meijer L,Herault Y	

Immunohistochemistry (Paraffin) (1)

PLoS genetics	Year 2021
Dyrk1a gene dosage in glutamatergic neurons has key effects in cognitive deficits observed in mouse models of MRD7 and Down syndrome.	
"PA5-14315 was used in Immunoprecipitation, Immunohistochemistry (Paraffin) to study whether the change in the dosage of Dyrk1a in glutamatergic neurons of the hippocampus and cortex of Down syndrome and MRD7 mouse models alter their development and/or normal working in adult brain, leading to the cognitive deficits observed in Down syndrome or Dyrk1a haploinsufficiency models."	
Authors: Brault V,Nguyen TL,Flores-Gutiérrez J,Iacono G,Birling MC,Lalanne V,Meziane H,Manousopoulou A,Pavlovic G,Lindner L,Selloum M,Sorg T,Yu E,Garbis SD,Hérault Y	
Species Mouse	Dilution 1:1000

Immunohistochemistry (PFA fixed) (1)

American journal of translational research	Year 2020
Changes in GABA and glutamate receptors on auditory cortical excitatory neurons in a rat model of salicylate-induced tinnitus.	
"PA5-14315 was used in Immunohistochemistry (PFA fixed) to conclude that the different patterns of plasticity change in cortical excitatory neurons might affect the generating of salicylate-induced tinnitus."	
Authors: Wu C,Wu X,Yi B,Cui M,Wang X,Wang Q,Wu H,Huang Z	
Species Rat	Dilution 1:20

Immunocytochemistry (1)

Frontiers in systems neuroscience	Year 2022
Homeostatic Changes in GABA and Glutamate Receptors on Excitatory Cortical Neurons during Sleep Deprivation and Recovery.	
"Published figure using CaMKII alpha polyclonal antibody (Product # PA5-14315) in Immunofluorescence"	
Authors: Del Cid-Pellitero E,Plavski A,Mainville L,Jones BE	

More applications with references on thermofisher.com

IP (2)

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 inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.