ARG30157
Phospho CaMKII Antibody Duo

Package: 1 pair
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG64934	anti-CaMKII alpha antibody	Goat pAb	Hu, Ms, Rat	FACS, ICC/IF, WB	50 µg
ARG51767	anti-CaMKII phospho (Thr286) antibody	Rabbit pAb	Hu, Ms, Rat	WB	50 µl

Summary

Product Description	CaMKII is an important member of the calcium/calmodulin-activated protein kinase family, functioning in neural synaptic stimulation and T cell receptor signaling. CaMKII has catalytic and regulatory domains. Ca2+/calmodulin binding to the CaMKII regulatory domain relieves autoinhibition and activates the kinase. The activated CaMKII further autophosphorylates at Thr286 to render the kinase constitutively active. Hughes, K. et al. (2001) J Biol Chem 276, 36008-13. Barria, A. et al. (1997) Science 276, 2042-2045. Barkai, U. et al. (2000) Mol. Endocrinol. 14, 554-563.
Target Name	CaMKII
Alternate Names	Phospho CaMKII antibody; Phospho Calcium / calmodulin dependent protein kinase II antibody; CaMKII phospho (Thr286) antibody; CaMKII alpha antibody

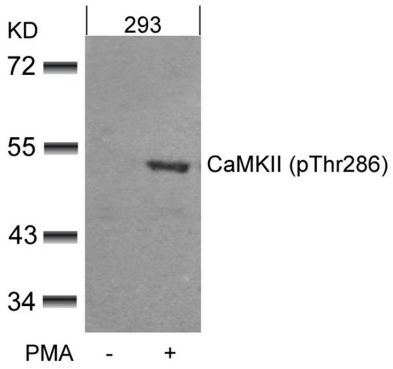
Properties

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

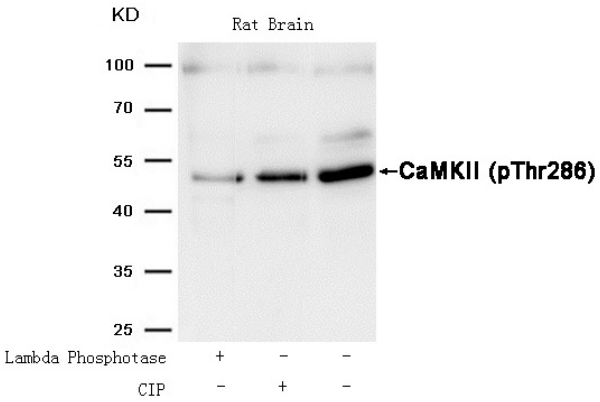
Gene Full Name	Phospho Calcium / calmodulin dependent protein kinase II (CaMKII) Antibody Duo
Highlight	Related Product: anti-CaMKII phospho (Thr286) antibody;
Research Area	Cell Biology and Cellular Response antibody; Neuroscience antibody; Signaling Transduction antibody

Images



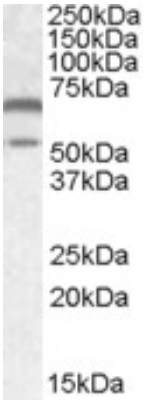
ARG51767 anti-CaMKII phospho (Thr286) antibody WB image

Western Blot: extracts from 293 cells untreated or treated with PMA stained with anti-CaMKII (phospho Thr286) antibody ARG51767.



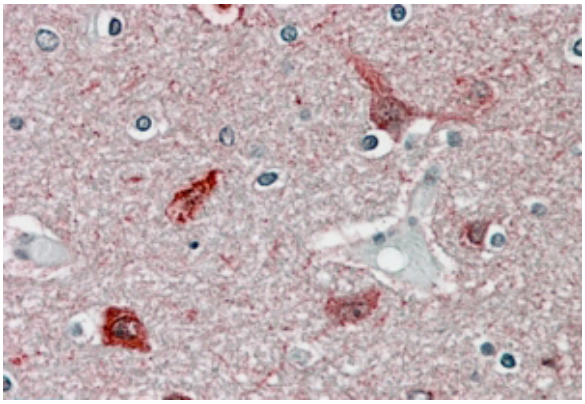
ARG51767 anti-CaMKII phospho (Thr286) antibody WB image

Western Blot: extracts from Rat brain tissue treated with Lambda Phosphotase or calf intestinal phosphatase (CIP),stained with anti-CaMKII (phospho Thr286) antibody ARG51767.



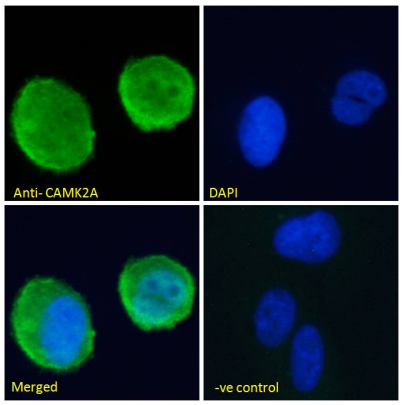
ARG64934 anti-CAMK2A antibody WB image

Western Blot: Mouse Brain lysate (35 µg protein in RIPA buffer) stained with ARG64934 anti-CAMK2A antibody at 0.1 µg/ml dilution.



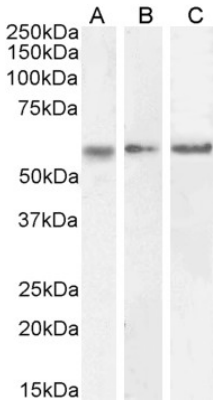
ARG64934 anti-CAMK2A antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Brain Cortex. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG64934 anti-CAMK2A antibody at 3.8 µg/ml dilution followed by AP-staining.



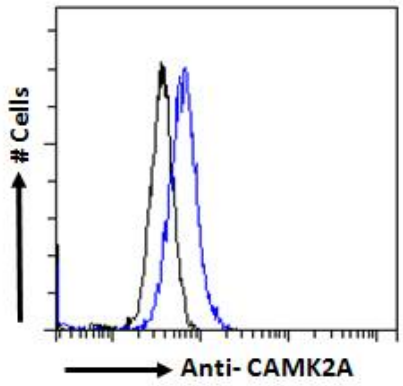
ARG64934 anti-CaMKII alpha antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U2OS cells permeabilized with 0.15% Triton. Cells were stained with ARG64934 anti-CaMKII alpha antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



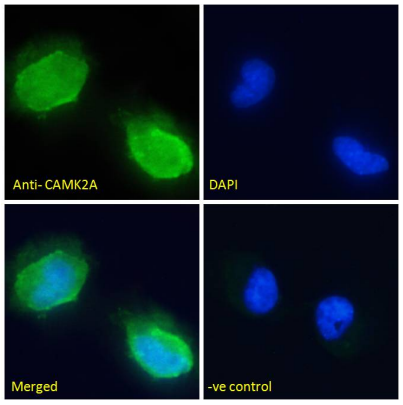
ARG64934 anti-CaMKII alpha antibody WB image

Western blot: 35 µg of Human cerebellum (A), Mouse brain (B) and Rat brain (C) lysates (in RIPA buffer) stained with ARG64934 anti-CaMKII alpha antibody at 0.3 µg/ml dilution and incubated at RT for 1 hour.



ARG64934 anti-CaMKII alpha antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed Kelly cells permeabilized with 0.5% Triton. Cells were stained with ARG64934 anti-CaMKII alpha antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).



ARG64934 anti-CaMKII alpha antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed U251 cells permeabilized with 0.15% Triton. Cells were stained with ARG64934 anti-CaMKII alpha antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.