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Datasheet for ABIN6260427

anti-CaMK2 alpha/delta antibody

4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	CaMK2 alpha/delta
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CaMK2 alpha/delta antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human CaMK2 alpha/delta
Isotype:	IgG
Specificity:	CaMK2 alpha/delta Antibody detects endogenous levels of total CaMK2 alpha/delta
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	CaMK2 alpha/delta
Abstract:	CaMK2 alpha/delta Products

Target Details

Background: Description: 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 (By similarity). Phosphorylates transcription factor FOXO3 on 'Ser-298' (PubMed:23805378). Activates FOXO3 transcriptional activity (By similarity).
Gene: CAMK2A

Molecular Weight: 50kDa

Gene ID: 815

UniProt: [Q9UQM7](#), [Q13557](#)

Application Details

Application Notes: WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

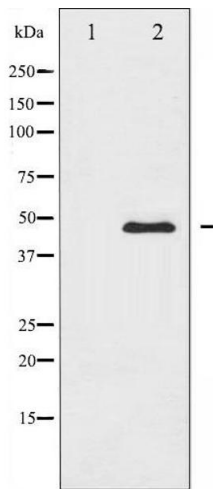
Storage: -20 °C

Storage Comment: Store at -20 °C.Stable for 12 months from date of receipt

Expiry Date: 12 months

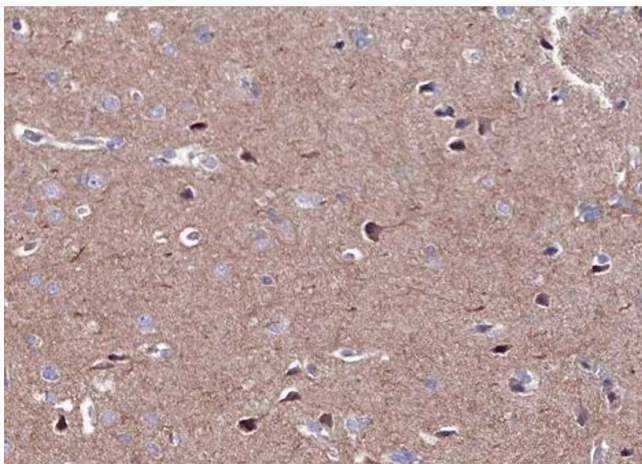
Publications

Product cited in: Cao, Xiao, Wang, Weng, Ding, Zhu, Lu: "Inhibition of Acid Sensing Ion Channel 3 Aggravates Seizures by Regulating NMDAR Function." in: **Neurochemical research**, (2018) ([PubMed](#)).



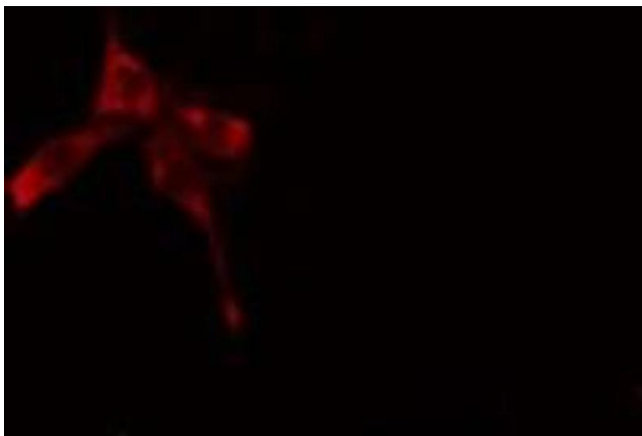
Western Blotting

Image 1. Western blot analysis of CaMK2 alpha/delta expression in NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Immunohistochemistry

Image 2. ABIN6269408 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 3. ABIN6269408 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6260427.