

## CaMKII(Ab-286) Antibody

Catalog No: #AB21279



Package Size: #AB21279-1 50ul #AB21279-2 100ul #AB21279-4 25ul

Orders: [order@abscitech.com](mailto:order@abscitech.com)Support: [tech@abscitech.com](mailto:tech@abscitech.com)

## Description

Product Name	CaMKII(Ab-286) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total CaMKII protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.284~288 (Q-E-T-V-D) derived from Human CaMKII.
Target Name	CaMKII
Other Names	CAMKA
Accession No.	Swiss-Prot: Q9UQM7NCBI Protein: NP_057065.2
SDS-PAGE MW	50kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

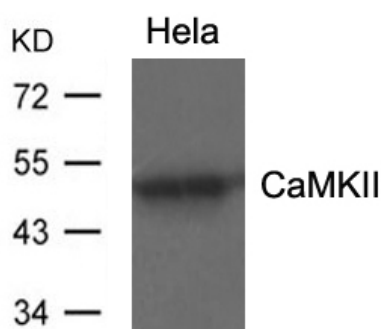
## Application Details

Predicted MW: 50kd

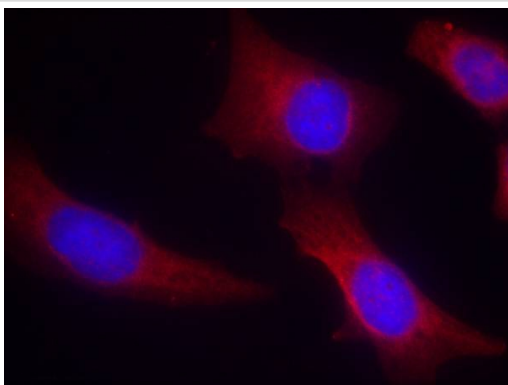
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

## Images



Western blot analysis of extracts from HeLa using CaMKII(Ab-286) Antibody #AB21279.



Immunofluorescence staining of paraffin-embedded human hippocampal region tissue from the falling sickness disease using CaMKII(Ab-286) Antibody #AB21279.

## Background

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

J Bossuyt, K Helmstadter, X Wu, et al. (2008) Ca<sup>2+</sup>/Calmodulin-Dependent Protein Kinase II {delta} and Protein Kinase D Overexpression Reinforce - Circulation Research, 102(6):695-702.

This article references the use of the #21279.

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.