CAMKK2 Antibody

Catalog No: #35298

Package Size: #35298-1 50ul #35298-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

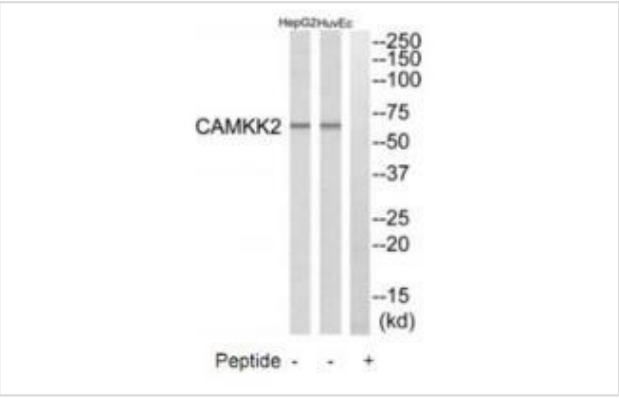
Product Name	CAMKK2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total CAMKK2 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human CAMKK2.
Target Name	CAMKK2
Other Names	Calcium/calmodulin-dependent protein kinase kinase 2; CaM-KK 2; CaM-kinase kinase 2; CaMKK 2; Calcium/calmodulin-dependent protein kinase kinase beta
Accession No.	Swiss-Prot: Q96RR4NCBI Gene ID: 10645
Uniprot	Q96RR4
GeneID	10645;
SDS-PAGE MW	65kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

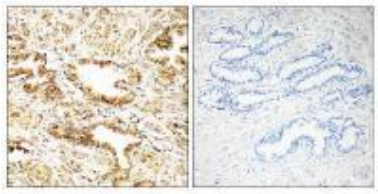
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from HuvEc cells and HepG2 cells, using CAMKK2 antibody #35298.



Immunohistochemistry analysis of paraffin-embedded human prostate carcinoma tissue, using CAMKK2 antibody #35298.

Background

Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Isoform 1, isoform 2 and isoform 3 phosphorylate CAMK1 and CAMK4. Isoform 3 phosphorylates CAMK1D. Isoform 4, isoform 5 and isoform 6 lacking part of the calmodulin-binding domain are inactive. Efficiently phosphorylates 5'-AMP-activated protein kinase (AMPK) trimer, including that consisting of PRKAA1, PRKAB1 and PRKAG1. This phosphorylation is stimulated in response to Ca2+ signals By similarity. Seems to be involved in hippocampal activation of CREB1 By similarity. May play a role in neurite growth. Isoform 3 may promote neurite elongation, while isoform 1 may promoter neurite branching.

Hsu L.-S., J. Biol. Chem. 276:31113-31123(2001).
Anderson K.A., J. Biol. Chem. 273:31880-31889(1998).
Ishikawa Y., FEBS Lett. 550:57-63(2003).

Note: This product is for in vitro research use only