

CAMKK2 Antibody

Catalog No: #35298

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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

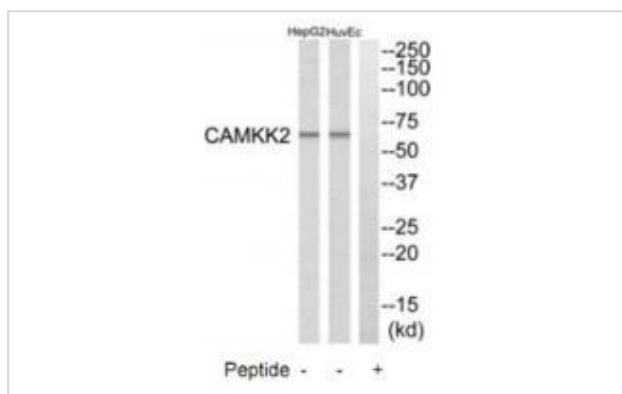
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|-----------------------|--|
| Product Name | CAMKK2 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| 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 Mg ²⁺ and Ca ²⁺), 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

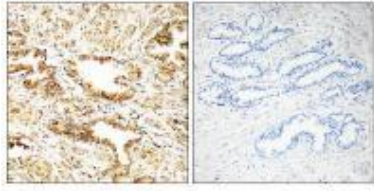
Immunohistochemistry: 1:50~1:100

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 promote 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