

Catalog #: 2084

Aliases

CAMK2A; Calcium/Calmodulin Dependent Protein Kinase II Alpha; CaMKIINalpha; KIAA0968; CAMKA; Calcium/Calmodulin-Dependent Protein Kinase (CaM Kinase) II Alpha; Calcium/Calmodulin-Dependent Protein Kinase Type II Subunit Alpha; Calcium/Calmodulin-Dependent Protein Kinase Type II Alpha Chain; Calcium/Calmodulin-Dependent Protein Kinase II Alpha-B Subunit; CaM Kinase II Alpha Subunit; CaM Kinase II Subunit Alpha; CaM-Kinase II Alpha Chain; CaMK-II Alpha Subunit; CaMK-II Subunit Alpha; EC 2.7.11.17; CaMKIIalpha; EC 2.7.11; CaMKII α ; CAMKIIA; MRD53; MRT63; CAMK2B; Calcium/Calmodulin Dependent Protein Kinase II Beta; CAMK2; CAM2; CAMKB; Calcium/Calmodulin-Dependent Protein Kinase Type II Subunit Beta; Proline Rich Calmodulin-Dependent Protein Kinase; CaM Kinase II Beta Subunit; CaM-Kinase II Beta Chain; CaMK-II Subunit Beta; EC 2.7.11.17; Calcium/Calmodulin-Dependent Protein Kinase (CaM Kinase) II Beta; Calcium/Calmodulin-Dependent Protein Kinase Type II Beta Chain; CaM Kinase II Subunit Beta; CaMKIIbeta; EC 2.7.11; CaMKII β ; CAMKIIB; MRD54

Background

Gene Name: CAMK2A/2B/2G/2D

NCBI Gene Entry: [815/816/818/817](#)

UniProt Entry: [Q9UQM7/Q13554/Q13555/Q13557](#)

Application Information

Molecular Weight: Predicted, 54 kDa; observed, 50 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 23GB5920

Species Reactivity: Human

Applications Tested: Western blotting (WB), flow cytometry (FCM), immunocytochemistry (IC)

Immunogen

A synthesized peptide derived from human CaMKII

Isotype

Rabbit IgG

Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

SUPPORT

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Storage

Store at -20 °C for one year.

Recommended Dilutions

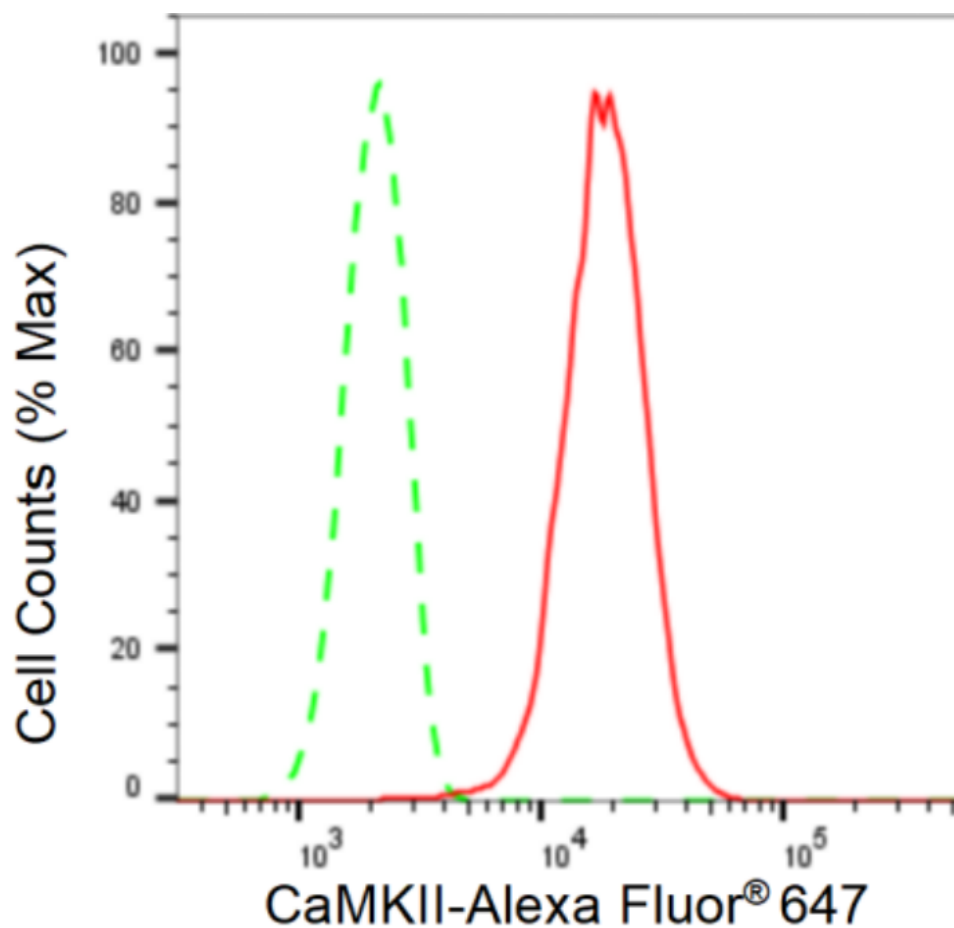
Western Blotting (WB): 1:1,000-1:5,000

Flow Cytometry (FCM): 1:2,000

Immunocytochemistry (IC): 1:100-1:1,000

Note: This product is for research use only.

Validation Data



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Flow cytometric analysis of CaMKII expression in HepG2 cells using CaMKII antibody (Cat#2084, 1:2,000). Green, isotype control; red, CaMKII.

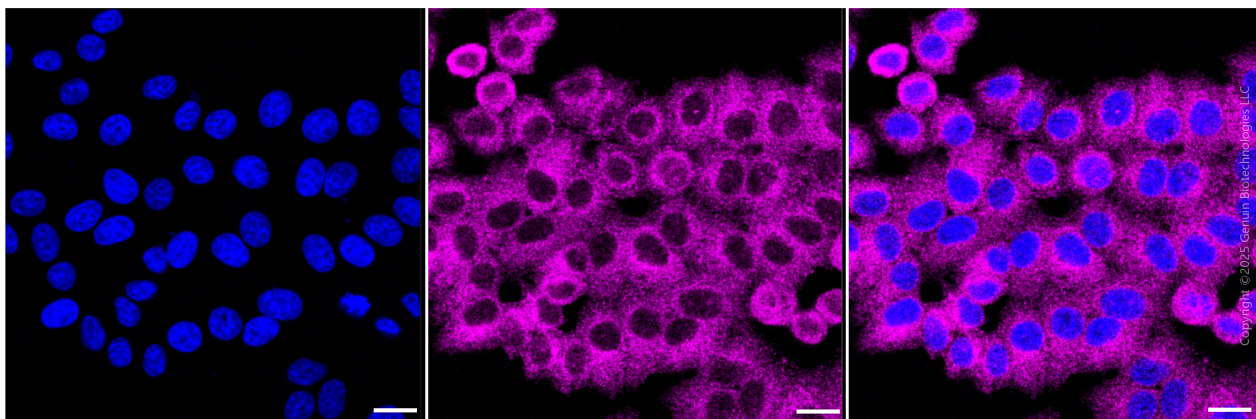
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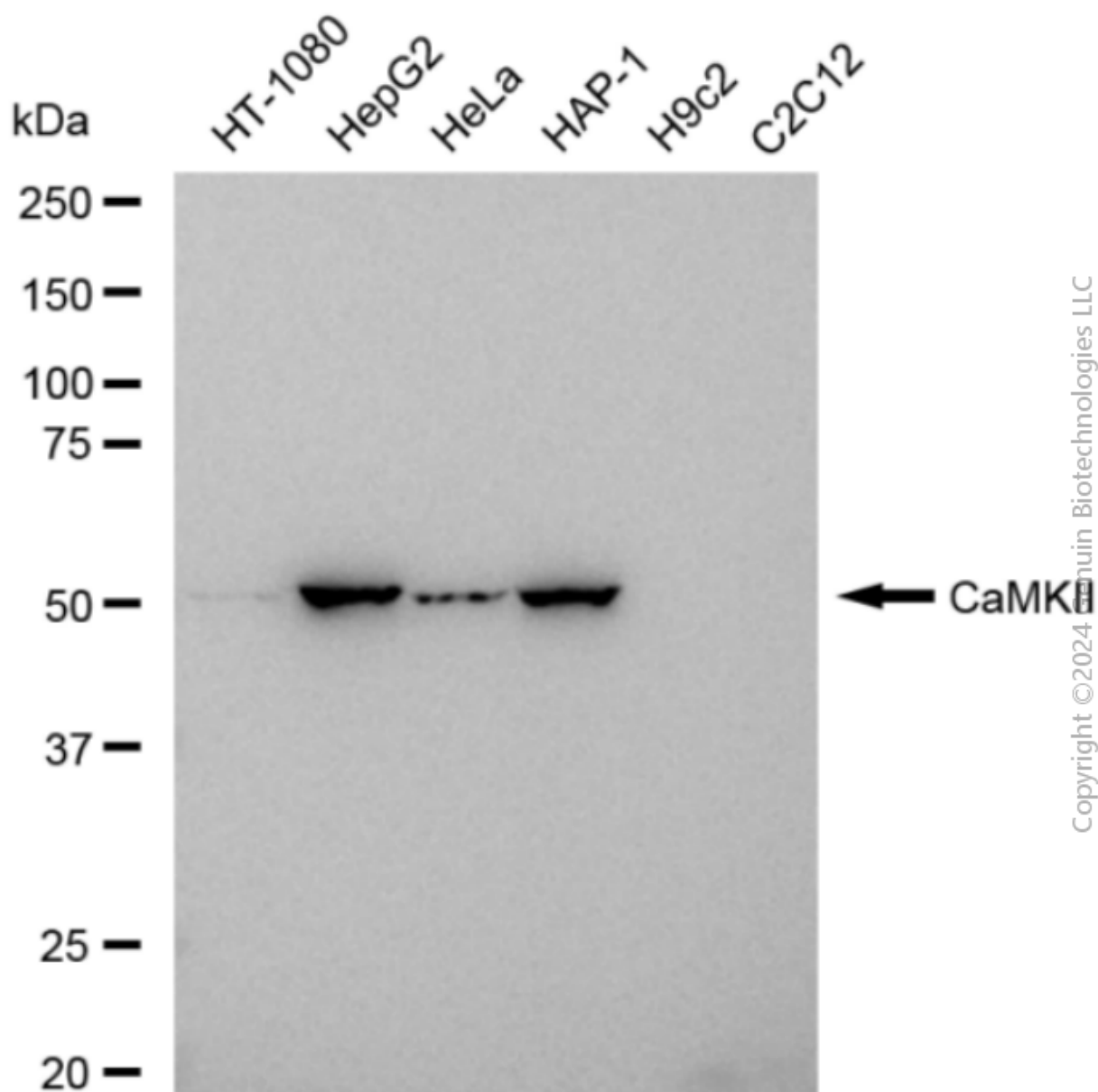
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Immunocytochemical staining of HepG2 cells with anti-CaMKII antibody (Cat#2084, 1:1,000) . Nuclei were stained blue with DAPI; CaMKII was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 μ m.



Western blotting analysis using anti-CaMKII antibody (Cat#2084). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CaMKII antibody (Cat#2084, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).