

Catalog #: 1765

Aliases

CAMK2A; Calcium/Calmodulin Dependent Protein Kinase II Alpha; 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; CaMKIINalpha; EC 2.7.11.17; CAMKIINALPHA; CaMKIIalpha; EC 2.7.11; CaMKII; 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; CaMKIIβ; CAMKIIB; MRD54; CAMK2G ; Calcium/Calmodulin Dependent Protein Kinase II Gamma; CAMKG; Calcium/Calmodulin-Dependent Protein Kinase (CaM Kinase) II Gamma; Calcium/Calmodulin-Dependent Protein Kinase Type II Subunit Gamma; CaMK-II Subunit Gamma; EC 2.7.11.17; CAMK-II; CAMK; CaM Kinase II Subunit Gamma; EC 2.7.11; MRD59; CAMK2D; Calcium/Calmodulin Dependent Protein Kinase II Delta; CAMKD; Calcium/Calmodulin-Dependent Protein Kinase (CaM Kinase) II Delta; Calcium/Calmodulin-Dependent Protein Kinase Type II Subunit Delta; EC 2.7.11.17; Calcium/Calmodulin-Dependent Protein Kinase Type II Delta Chain; CaM Kinase II Delta Subunit; CaM Kinase II Subunit Delta; CaM-Kinase II Delta Chain; CaMK-II Delta Subunit; CaMK-II Subunit Delta; EC 2.7.11

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, 54-73 kDa; observed, 54 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 23GB4370

Species Reactivity: Human, mouse, rat

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

Immunogen

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Anti-CaMKII Recombinant Rabbit Monoclonal Antibody

PAGE 2

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.

Storage

Store at -20 °C for one year.

Recommended Dilutions

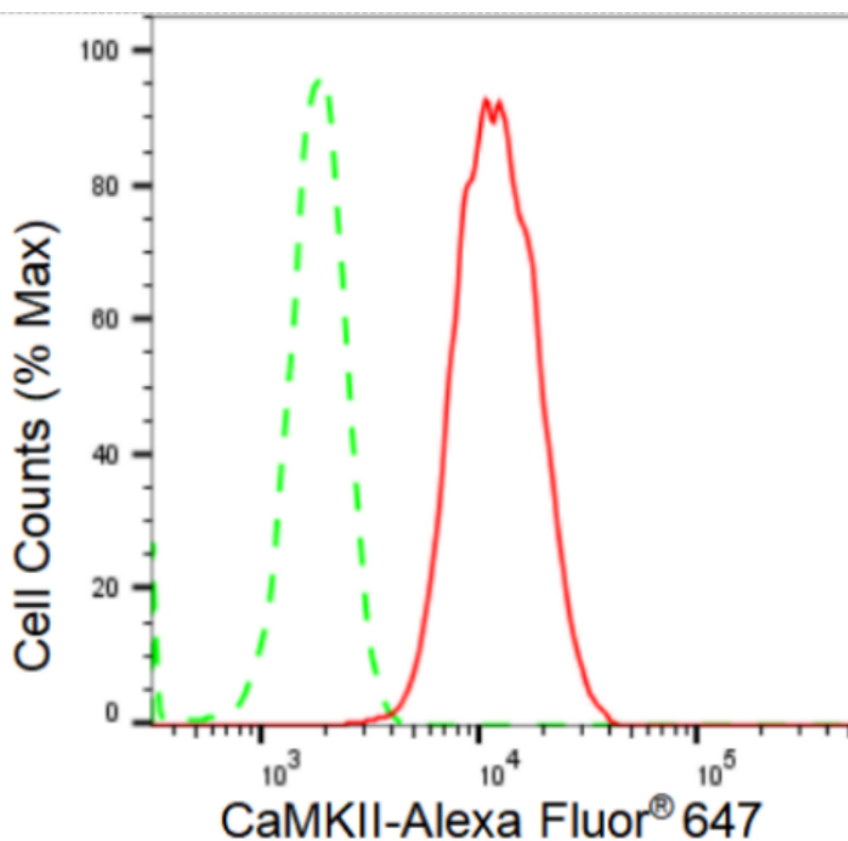
Western Blotting (WB): 1:1,000-1:5,000

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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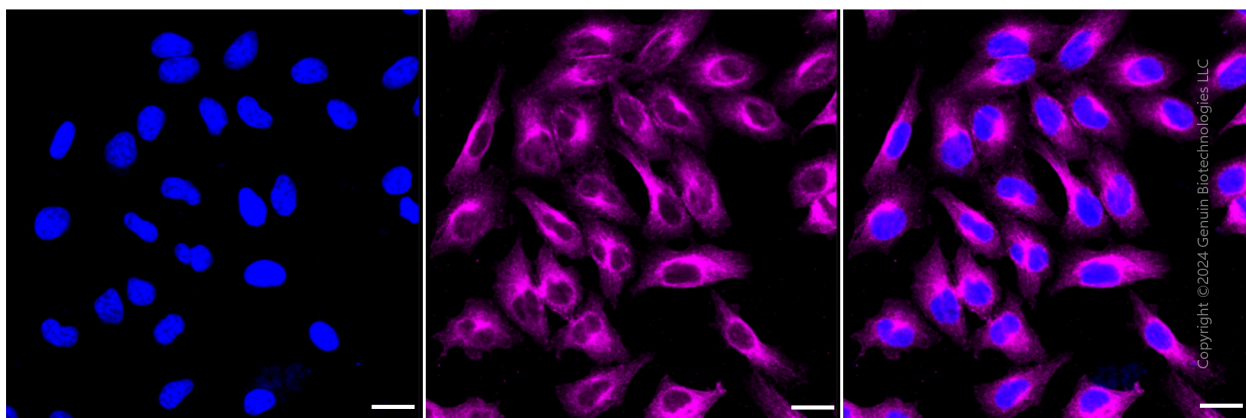
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Anti-CaMKII Recombinant Rabbit Monoclonal Antibody

PAGE 3

Flow cytometric analysis of CaMKII expression in HepG2 cells using CaMKII antibody (Cat#1765, 1:2,000). Green, isotype control; red, CaMKII.



Immunocytochemical staining of HepG2 cells with CaMKII antibody (Cat#1765, 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: Medium. Scale bar: 20 μ m.

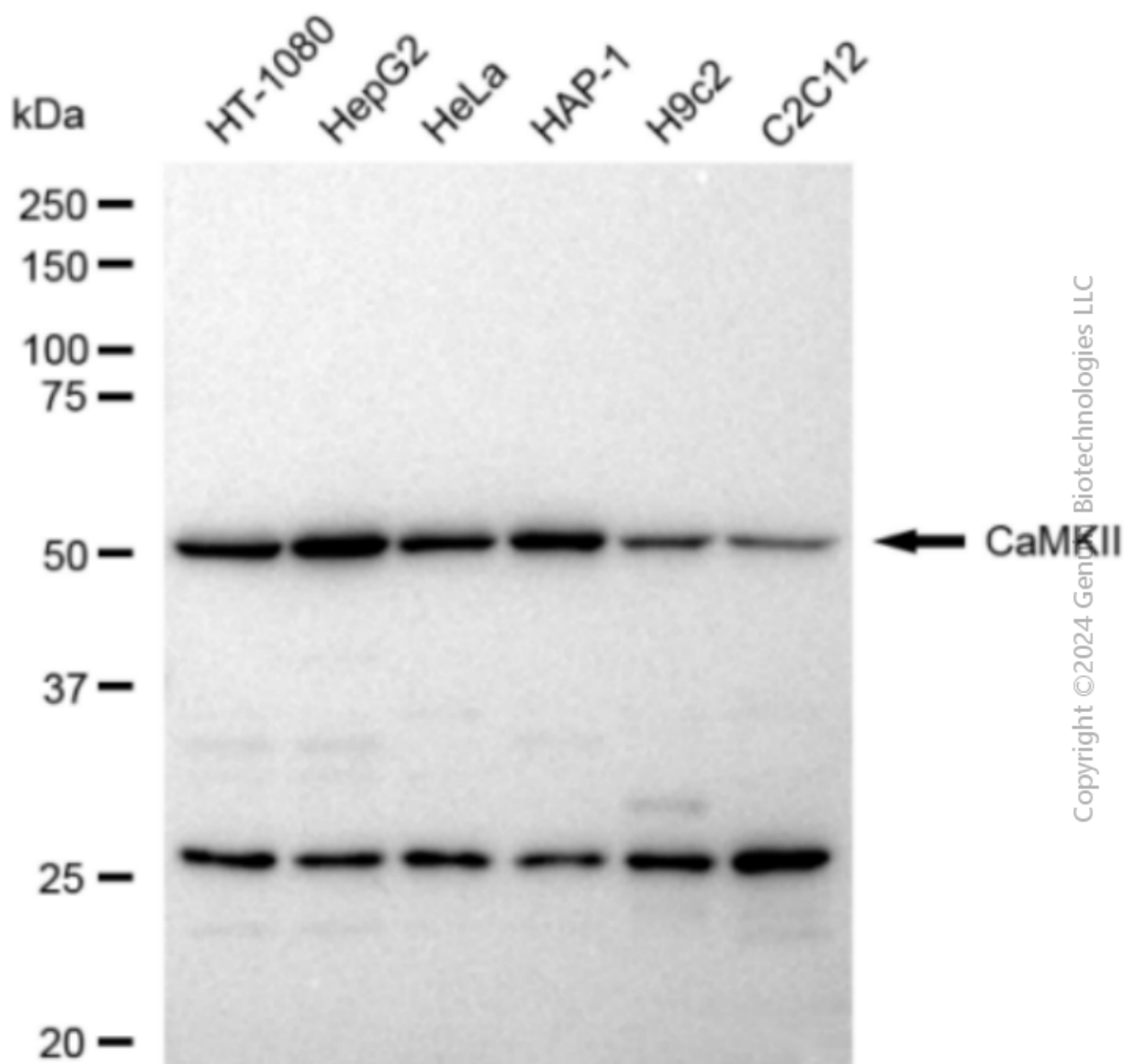
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Western blotting analysis using anti-CaMKII antibody (Cat#1765). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CaMKII antibody (Cat#1765, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).

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