

Product Name: KD-Validated CAMK4 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01124

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 51.9kDa

Antigen Information

Gene Name	CAMK4
Alternative Names	CAMK4; Calcium/Calmodulin Dependent Protein Kinase IV; CaMK-GR; CaMKIV; Calcium/Calmodulin-Dependent Protein Kinase Type IV Catalytic Chain; Brain Ca++-Calmodulin-Dependent Protein Kinase Type IV; Calcium/Calmodulin-Dependent Protein Kinase Type IV; CAM Kinase- GR; CAM Kinase IV; CaMK IV; Brain Ca(2+)-Calmodulin-Dependent Protein Kinase Type IV; CaM Kinase-GR; EC 2.7.11.17; EC 2.7.11; CAMK-GR; CAMKIV; CaMK; CAMK
Gene ID	814.0
SwissProt ID	Q16566
Immunogen	A synthesized peptide derived from human CAMKIV

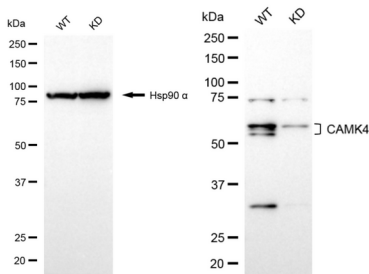
Background

The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. [provided by RefSeq, Jul 2008]

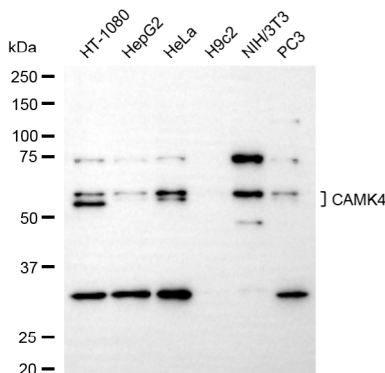
Research Area

Neuroscience, Epigenetics and Nuclear Signaling, Signal Transduction

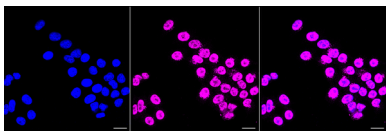
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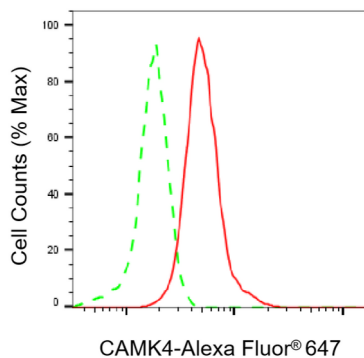
Western blotting analysis using CAMK4 antibody (KVA01124). CAMK4 expression in wild-type (WT) and CAMK4 knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CAMK4 antibody (KVA01124, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CAMK4 antibody (KVA01124). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CAMK4 antibody (KVA01124, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with CAMK4 antibody (KVA01124, 1:1,000). Nuclei were stained blue with DAPI; CAMK4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.



Flow cytometric analysis of CAMK4 expression in HepG2 cells using CAMK4 antibody (KVA01124, 1:2,000). Green, isotype control; red, CAMK4.