

Recombinant Human CAMK2G 293 Cell Lysate

Cat. No. CAMK2G-7876HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for calcium/calmodulin-dependent protein kinase II gamma (CAMK2G), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	CAMK2G calcium/calmodulin-dependent protein kinase II gamma [Homo sapiens]
Official Symbol	CAMK2G
Synonyms	CAMK2G; calcium/calmodulin-dependent protein kinase II gamma; calcium/calmodulin dependent protein kinase (CaM kinase) II gamma , CAMKG; calcium/calmodulin-dependent protein kinase type II subunit gamma; caMK-II subunit gamma; calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma; CAMK; CAMKG; CAMK-II; FLJ16043; MGC26678;
Gene ID	818
mRNA Refseq	NM_172169
Protein Refseq	NP_751909
MIM	602123
UniProt ID	Q13555
Chromosome Location	10q22
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; BCR signaling pathway, organism-specific biosystem; CREB phosphorylation through the activation of CaMKII,

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organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;

Function

ATP binding; ATP binding; calcium-dependent protein serine/threonine phosphatase activity; calmodulin binding; calmodulin binding; calmodulin-dependent protein kinase activity; calmodulin-dependent protein kinase activity; nucleotide binding;

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