

Recombinant Human CAMK1 293 Cell Lysate

Cat. No. CAMK1-7883HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for calcium/calmodulin-dependent protein kinase I (CAMK1) 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.

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

GENE INFORMATION
Gene Name

[CAMK1](#) calcium/calmodulin-dependent protein kinase I [Homo sapiens]

Official Symbol

CAMK1

Synonyms

CAMK1; calcium/calmodulin-dependent protein kinase I; calcium/calmodulin-dependent protein kinase type 1; CaMKI; caM-KI; caMKI-alpha; caM kinase I alpha; CAMKI; MGC120317; MGC120318;

Gene ID

[8536](#)

mRNA Refseq

[NM_003656](#)

Protein Refseq

[NP_003647](#)

MIM

[604998](#)

UniProt ID

[Q14012](#)

**Chromosome
Location**

3p25.3

Pathway

Calcium Regulation in the Cardiac Cell, organism-specific biosystem;

Function

ATP binding; calmodulin binding; calmodulin-dependent protein kinase activity; nucleotide binding; protein binding;

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