

Recombinant Human CALM3 293 Cell Lysate

Cat. No. CALM3-7888HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for calmodulin 3 (phosphorylase kinase, delta) (CALM3) 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

CALM3 calmodulin 3 (phosphorylase kinase, delta) [Homo sapiens]

Official Symbol

CALM3

Synonyms

CALM3; calmodulin 3 (phosphorylase kinase, delta); calmodulin; PHKD; caM; CALM1; CALM2; PHKD3;

Gene ID

808

mRNA Refseq

NM_005184

Protein Refseq

NP_005175

MIM

114183

UniProt ID

P62158

**Chromosome
Location**

19q13.2-q13.3

Pathway

Activation of Ca-permeable Kainate Receptor, organism-specific biosystem;
Activation of CaMK IV, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem;
Adaptive Immune System, organism-specific biosystem; Alzheimers disease,

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organism-specific biosystem; Alzheimers disease, conserved biosystem;

Function

N-terminal myristoylation domain binding; calcium ion binding; calcium ion binding; calcium ion binding; calcium-dependent protein binding; kinase activity; phosphatidylinositol 3-kinase binding; phospholipase binding; protein binding; protein domain specific binding; thioesterase binding; titin binding;

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