

Recombinant Human CAPN1 293 Cell Lysate

Cat. No. CAPN1-7865HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for calpain 1, (μ g/l) large subunit (CAPN1) 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

CAPN1 calpain 1, (mu/I) large subunit [Homo sapiens]

Official Symbol

CAPN1

Synonyms

CAPN1; calpain 1, (mu/I) large subunit; calpain-1 catalytic subunit; CANP; CANPL1; muCANP; muCL; CANP 1; calpain mu-type; micromolar-calpain; calpain-1 large subunit; calpain, large polypeptide L1; calcium-activated neutral proteinase 1; cell proliferation-inducing protein 30; cell proliferation-inducing gene 30 protein; CANP1;

Gene ID

823

mRNA Refseq

NM_001198868

Protein Refseq

NP_001185797

MIM

114220

UniProt ID

P07384

Chromosome Location

11q13

Pathway

Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Focal Adhesion, organism-specific biosystem; Integrin-mediated cell adhesion,

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organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem;

Function

calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; peptidase activity; protein binding;

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