

Recombinant Human CAPN3 293 Cell Lysate

Cat. No. CAPN3-7862HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for calpain 3, (p94) (CAPN3), transcript variant 6 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 [CAPN3 calpain 3, \(p94\) \[Homo sapiens \]](#)

Official Symbol CAPN3

Synonyms

CAPN3; calpain 3, (p94); LGMD2, LGMD2A; calpain-3; CANP3; nCL 1; p94; calpain L3; new calpain 1; calpain, large polypeptide L3; calcium-activated neutral proteinase 3; calpain p94, large [catalytic] subunit; muscle-specific calcium-activated neutral protease 3 large subunit; LGMD2; nCL-1; CANPL3; LGMD2A; MGC4403; MGC10767; MGC11121; MGC14344;

Gene ID [825](#)

mRNA Refseq [NM_000070](#)

Protein Refseq [NP_000061](#)

MIM [114240](#)

UniProt ID [P20807](#)

Chromosome Location 15q15.1

Pathway

Integrin-mediated cell adhesion, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;

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Function

calcium ion binding; calcium ion binding; calcium-dependent cysteine-type endopeptidase activity; calcium-dependent cysteine-type endopeptidase activity; calcium-dependent cysteine-type endopeptidase activity; catalytic activity; cysteine-type peptidase activity; ligase regulator activity; peptidase activity; peptidase activity; protein complex scaffold; signal transducer activity; sodium ion binding; structural constituent of muscle; titin binding;

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