

Recombinant Human PSMD2 293 Cell Lysate

Cat. No. PSMD2-2750HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 (PSMD2) 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 PSMD2 proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 [Homo sapiens]

Official Symbol PSMD2

Synonyms PSMD2; proteasome (prosome, macropain) 26S subunit, non-ATPase, 2; 26S proteasome non-ATPase regulatory subunit 2; MGC14274; P97; Rpn1; S2; TRAP2; 55.11 protein; protein 55.11; TNFR-associated protein 2; 26S proteasome subunit p97; 26S proteasome regulatory subunit S2; 26S proteasome regulatory subunit RPN1; tumor necrosis factor receptor-associated protein 2; tumor necrosis factor type 1 receptor-associated protein 2;

Gene ID 5708

mRNA Refseq NM_002808

Protein Refseq NP_002799

MIM 606223

UniProt ID Q13200

Chromosome Location 3q27.3

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Pathway

APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem;
APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem;
APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted
proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C
and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific
biosystem; Activation of NF-kappaB in B Cells, organism-specific biosystem; Adaptive
Immune System, organism-specific biosystem;

Function

enzyme regulator activity; protein binding;

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