

Recombinant Human PSMA4 293 Cell Lysate

Cat. No. PSMA4-2778HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for proteasome (prosome, macropain) subunit, alpha type, 4 (PSMA4), transcript variant 1 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 [PSMA4 proteasome \(prosome, macropain\) subunit, alpha type, 4 \[Homo sapiens \]](#)

Official Symbol PSMA4

Synonyms

PSMA4; proteasome (prosome, macropain) subunit, alpha type, 4; proteasome subunit alpha type-4; HC9; HsT17706; macropain subunit C9; proteasome subunit L; proteasome subunit HC9; proteasome component C9; multicatalytic endopeptidase complex subunit C9; PSC9; MGC12467; MGC24813; MGC111191;

Gene ID [5685](#)

mRNA Refseq [NM_001102667](#)

Protein Refseq [NP_001096137](#)

MIM [176846](#)

UniProt ID [P25789](#)

Chromosome Location 15q24.1

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;

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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	peptidase activity; protein binding; threonine-type endopeptidase activity;
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