

## Recombinant Human PSMB2 293 Cell Lysate

Cat. No. PSMB2-2774HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for proteasome (prosome, macropain) subunit, beta type, 2 (PSMB2) 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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	PSMB2 proteasome (prosome, macropain) subunit, beta type, 2 [ Homo sapiens ]
<b>Official Symbol</b>	PSMB2
<b>Synonyms</b>	PSMB2; proteasome (prosome, macropain) subunit, beta type, 2; proteasome subunit beta type-2; HC7 I; macropain subunit C7-I; proteasome beta 2 subunit; proteasome component C7-I; proteasome subunit, beta type, 2; multicatalytic endopeptidase complex subunit C7-1; multicatalytic endopeptidase complex subunit C7-I; HC7-I; MGC104215; MGC126885;
<b>Gene ID</b>	5690
<b>mRNA Refseq</b>	NM_001199779
<b>Protein Refseq</b>	NP_001186708
<b>MIM</b>	602175
<b>UniProt ID</b>	P49721
<b>Chromosome Location</b>	1p34.2
<b>Pathway</b>	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

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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; threonine-type endopeptidase activity;

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