

Recombinant Human PSMB9 293 Cell Lysate

Cat. No. PSMB9-2766HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2) (PSMB9), 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.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

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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	PSMB9 proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2) [Homo sapiens]
Official Symbol	PSMB9
Synonyms	PSMB9; proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2); LMP2, proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2); proteasome subunit beta type-9; beta1i; PSMB6i; RING12; macropain chain 7; proteasome chain 7; proteasome-related gene 2; proteasome subunit beta 6i; proteasome subunit beta-1i; low molecular mass protein 2; proteasome catalytic subunit 1i; really interesting new gene 12 protein; multicatalytic endopeptidase complex chain 7; LMP2; MGC70470;
Gene ID	5698
mRNA Refseq	NM_002800
Protein Refseq	NP_002791
MIM	177045
UniProt ID	P28065
Chromosome Location	6p21.3

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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

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

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