

Product datasheet for **LY300282**

PSMB10 Human Knockdown Lysate

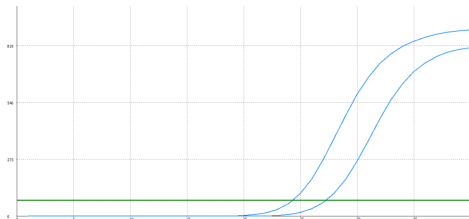
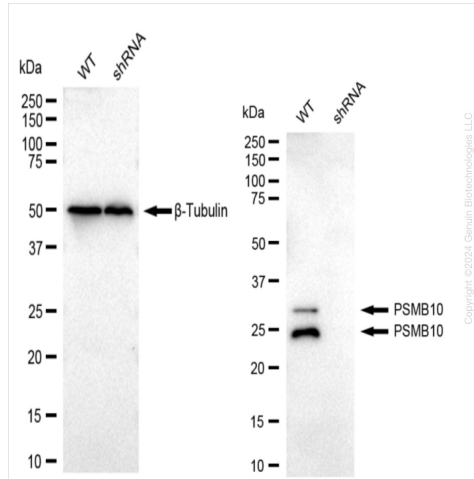
Product data:

Product Type:	Knockdown Lysates
Description:	WB-validated PSMB10 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	PSMB10; Proteasome 20S Subunit Beta 10; LMP10; MECL1; Proteasome (Prosome, Macropain) Subunit, Beta Type, 10; Multicatalytic Endopeptidase Complex Subunit MECL-1; Proteasome Subunit Beta Type-10; Low Molecular Mass Protein 10; Proteasome Subunit Beta 10; Proteasome Subunit Beta-2i; Macropain Subunit MECL-1; Proteasome MECL-1; EC 3.4.25.1; MGC1665; Beta2i; Proteasome Catalytic Subunit 2i; Proteasome Subunit Beta 7i; Proteasome Subunit Beta2i; Proteasome Subunit MECL1; Proteasome Subunit B2i; PRAAS5; BETA2I
Predicted MW:	29 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug PSMB10 KD HeLa cell lysate
Storage:	Store at -20 °C for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	5699
UniProt ID:	<u>P40306</u>
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome



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Product images:



Genotype	Ct Value
Wild-Type	24.02
Knock-Down	26.73
ΔCt ($Ct_{KD} - Ct_{WT}$)	2.71
% mRNA Reduction	↓ 85%

Western blotting analysis. PSMB10 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. β -Tubulin served as a loading control. The blots were incubated with primary antibodies (Cat#61197, 1:5,000) against PSMB10 and β -Tubulin, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).

RT-qPCR analysis. HeLa cells were infected with PSMB10-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt ($Ct_{KD} - Ct_{WT}$) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: $(1 - 1/2^{\Delta Ct}) \times 100\%$.