

Human PSMB10 Knockdown Cell Lysate

Cat. No. PSMB10-282HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated PSMB10 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. Proteolytic processing is required to generate a mature subunit. Expression of this gene is induced by gamma interferon, and this gene product replaces catalytic subunit 2 (proteasome beta 7 subunit) in the immunoproteasome.
Form	Cell-Tissue Lysis buffer
Molecular Mass	29 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and

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	knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg PSMB10 KD HeLa cell lysate
Protein Families	Druggable Genome, Protease
Protein Pathways	Proteasome
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	PSMB10 proteasome (prosome, macropain) subunit, beta type, 10 [Homo sapiens (human)]
Official Symbol	PSMB10
Synonyms	PSMB10; proteasome (prosome, macropain) subunit, beta type, 10; MECL1; proteasome subunit beta type-10; beta2i; LMP10; MGC1665; proteasome MECL-1; macropain subunit MECL-1; proteasome subunit MECL1; proteasome subunit beta 7i; proteasome subunit beta-2i; low molecular mass protein 10; proteasome catalytic subunit 2i; multicatalytic endopeptidase complex subunit MECL-1; FLJ00366;
Gene ID	5699

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mRNA Refseq	NM_002801
Protein Refseq	NP_002792
MIM	176847
UniProt ID	P40306

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