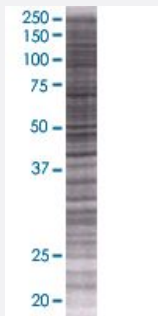


# PSMB7 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00005695-T02

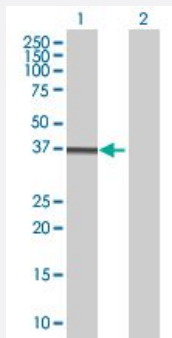
Size 100 uL

## Applications



### SDS-PAGE Gel

PSMB7 transfected lysate.



### Western Blot

Lane 1: PSMB7 transfected lysate ( 30.58 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-PSMB7 full-length
Host	Human
Theoretical MW (kDa)	30.58
Interspecies Antigen Sequence	Mouse (96); Rat (95)

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-PSMB7 antibody ([H00005695-B02](#)) by Western Blots.  
SDS-PAGE Gel  
PSMB7 transfected lysate.  
Western Blot  
Lane 1: PSMB7 transfected lysate ( 30.58 KDa)  
Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — PSMB7

**Entrez GeneID**[5695](#)**GeneBank Accession#**[BC000509](#)**Protein Accession#**[AAH00509](#)**Gene Name**

PSMB7

**Gene Alias**

Z

**Gene Description**

proteasome (prosome, macropain) subunit, beta type, 7

**Omim ID**[604030](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon and proteolytic processing is required to generate a mature subunit. This subunit is not present in the immunoproteasome and is replaced by catalytic subunit 2i (proteasome beta 10 subunit). [provided by RefSeq]

**Other Designations**

OTTHUMP00000022798|macropain chain Z|multicatalytic endopeptidase complex chain Z|proteasome beta 7 subunit|proteasome catalytic subunit 2|proteasome subunit Z|proteasome subunit alpha|proteasome subunit beta 7

**Pathway**

- [Proteasome](#)

**Disease**

- [Kidney Failure](#)
- [Tobacco Use Disorder](#)